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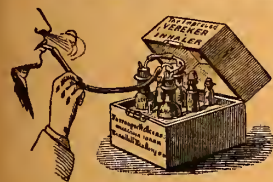
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JUNE 8, 1895.

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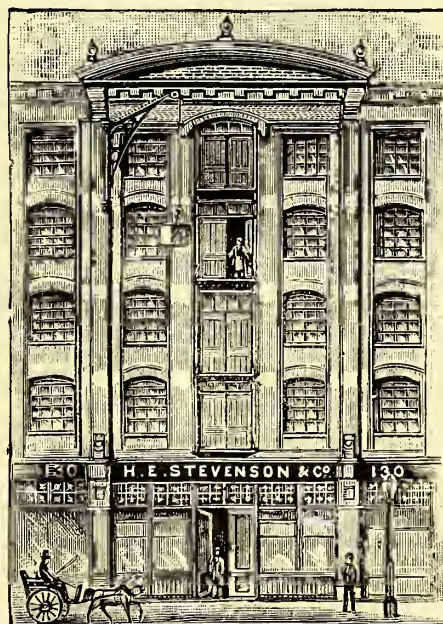
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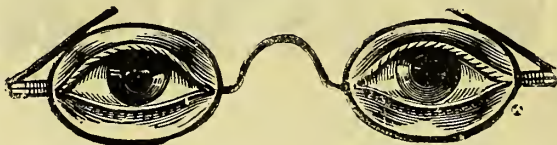
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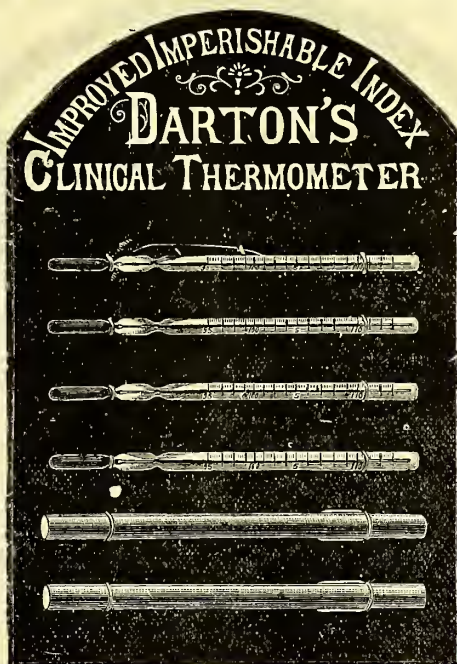
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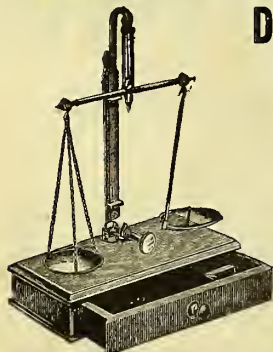
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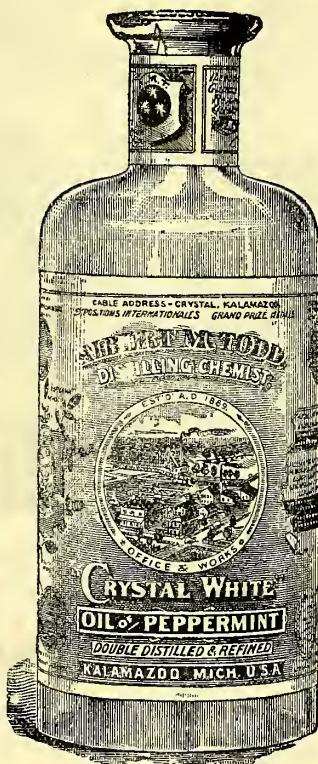
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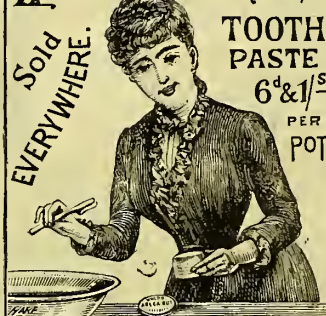
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THE **FLY CEMETERY** ⁸

BY ROYAL LETTERS PATENT. "CATCHES MORE FLIES IN A DAY THAN THE OLD FASHIONED PAPERS DO IN A WEEK." SOLD ALL OVER THE WORLD. PRICE ONE PENNY.



WELL KNOWN IN EVERY HOUSEHOLD IN THE KINGDOM.
ANNUAL SALE MILLIONS. BEARS LARGE PROFITS.

"The best test as to the efficacy of a Sticky Fly Paper is the length of time that it will retain its moisture and adhesiveness upon exposure to the air. We invite our friends to thus test our Paper against that of *any* rival manufacture by opening out the various samples and placing them side by side in the sun. We think it will be found that the 'Cemetery' will answer this test the most efficiently, and will not speedily become a mere *Skating Rink* for the Flies to amuse themselves upon."

NOTE.—The Fly Cemetery is folded over at the edges, as it is found by several years' experience that this is the method most appreciated by the general public as being the simplest plan, and most easy to open. When you know a good article stick to it as tenaciously as the Flies do to the Fly Cemetery.

MANUFACTURERS—

TUNBRIDGE & WRIGHT, READING.

NORTH OF ENGLAND DEPOT—

4 GALLOWGATE, NEWCASTLE-ON-TYNE.

TELEGRAMS—

"FLIES READING."

IMPORTANT NOTICE.

In order that our Customers may not suffer any loss through deterioration of Stock kept during the Winter, we are willing to Exchange any thus left over for Fresh Stock at the commencement of a new Season. We only ask our friends to assist us by ordering judiciously, especially towards the latter part of the Season.

FEARFULLY FATAL FOR FILTHY FLIES!!

Can be carried in the Pocket.

MARSHALL'S FLY CATCHER. PATENTED.

WHEN COVERED PULL STRING O BACK TO REMOVE O FLIES. AND USE AGAIN.

The Fly Paste for own use supplied in Tins at 2d.

1d. EACH.

1d. EACH.

THE ONLY REEL COMFORT.

MARSHALL'S

FLY & MOSQUITO CATCHER

IS NOT OFFENSIVE TO THE SIGHT.

Catches more Insects than Sticky Papers.

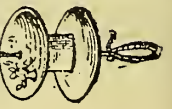
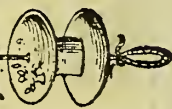
DOES NOT SPOIL BY KEEPING.

GOOD IN ANY CLIMATE

Therefore Specially Suitable for Export.

Promptly fixes the pests and rapidly clears a room of these carriers of disease and contagion.

Catches successive crops by drawing the String to and fro, at the same time Killing the Insects, thus there is no lingering torture



STOCKED BY ALL THE LEADING LONDON, PROVINCIAL, AND COLONIAL HOUSES.

FLYODOOMO FLYODOOMO FLYODOOMO

THIS IS THE NEW NAME FOR

SMITH'S FLY STICKERS

The Cleanest, Stickiest, and Best Fly Papers in the Market. Carefully rolled up so that the Composition cannot possibly get outside. Own Name and Address on 100-gross quantities.

Large Buyers should write for Samples and Quotations.

$\frac{1}{2}$ d. and 1d. Sizes.

MAKER OF SUPERIOR FLY LIME.

SAMPLE AND PRICE ON APPLICATION.

JOHN H. SMITH,
NEWARK-ON-TRENT.

WISE SAYINGS WITH A MODERN APPLICATION.

"Do a little well and you will do much."

A 6d. Tin of Buchan's Death Jam will kill thousands of Wasps.

BUY THEREFORE

THE PERFUMED STICKY FLY 1d. ENTIGER. 1d.

Fly
Enticer
Gum.

Tins 2d. each.

The
Surest and Best
Fly Catcher.



TRADE MARK
(Registered).

Death
Jam.

Kills Wasps,
Mosquitoes.

Tins, 6d, 1/-, and
2/6.

Most Alluring
and
very Sticky.

Send for Samples NOW, Post Free.

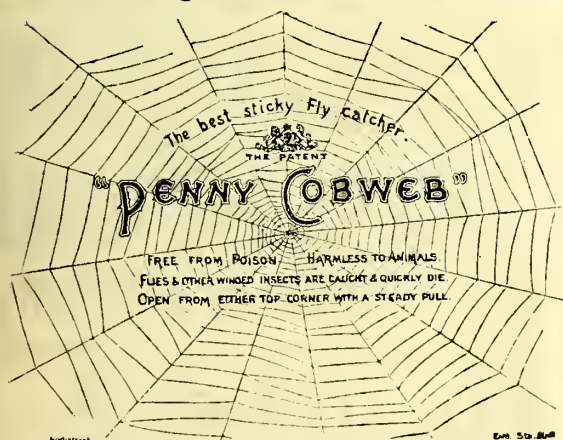
To be obtained from the principal Drug and Sundries Houses,
or from the Manufacturer—

D. D. BUCHAN, FRIOCKHEIM, N.B.
Telegrams—"BUCHAN FRIOCKHEIM."

Sole Export Agents—BURGOYNE, BURBIDGES & CO.,
16 Coleman Street, London, E.C.

CHRISTY STRONG

Begs to inform the Trade that he is now manufacturing



MACHINE-MADE FLY PAPERS, the
"GRIP" and the "COBWEB," a
great improvement on the hand-
made paper. They are the admira-
tion of all who have seen and
tested them.

5/- Per Gross,
Post Paid.

Cash must accompany order.

Progressive Traders should compare by sending for post-paid Samples.

READING.

FORD, SHAPLAND & CO.

Chemists' and General Printers, Lithographers, Engravers, &c.,

6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.

STICKY FLY PAPERSIn Two Sizes, to Sell at $\frac{1}{2}$ d. and 1d. each. Unquestionably superior to all others.**Also CHEMICALLY PREPARED FLY PAPERS.**

PRICES ON APPLICATION.

CABINET PAPER FOR THE WATER-CLOSET.In Registered Shape Boxes and in Packets.
SAMPLES AND PRICES ON APPLICATION.*Price Lists, Pamphlets, Circulars, Billheads, Memorandums, Cards, and all kinds of Printing and Stationery required by Chemists, at most Moderate Prices.***COOK'S PURE TOILET SOAPS.****SPECIALITIES:—COOK'S "SAVON DE LUXE."** The most luxurious soap made.**COOK'S "RIVIERA" SOAP. (SUPER-FATTED.)** Specially prepared for delicate and sensitive skins.

SPECIALITIES MADE FOR THE TRADE.

COOK'S GOLD MEDAL ANTISEPTIC SOAP. (Thomson's Patent.)

For curing and relieving Eczema, Ringworm, and all skin affections.

SIX PRIZE MEDALS AT GREAT EXHIBITIONS FOR EXCELLENCE AND PURITY.

Can be obtained through

Messrs. S. MAW, SON & THOMPSON, LONDON, or from E. COOK & CO., LONDON

**JAMES
BURROUGH****FINE PORT** without Tannin
FINE SHERRY for Medicinal Uses, &c.
FINE MALAGA for Steel Wine, &c.
FINE BURGUNDY for Invalids
S.V.R. and Methylated Spirit at lowest present prices**CALE STREET
DISTILLERY***All at Lowest Prices and
specially recommended.***CHELSEA.****BOORD & SON,**

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS.

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.**S. V. METH.****JONES & COMPANY,
COPPERFIELD ROAD,
LONDON, E.**

LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in
5-gallon quantities at Lowest Prices.**REDUCTIONS TO LARGE BUYERS.**

SAMPLES FREE.

SYPHONS & SELTZOGENES



Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W.
Agents for New South Wales, Queensland, and New Zealand.

SODAWATER MACHINERY

AND APPLIANCES
BRATBY & HINCHLIFFE LTD

ANCOATS 146 MINORIES
MANCHESTER LONDON EC

81 ROBERTSON STREET, GLASGOW.

PRICES.

SYPHONS -- 1/6 1/8 and 1/10 each.

SELTZOGENES.

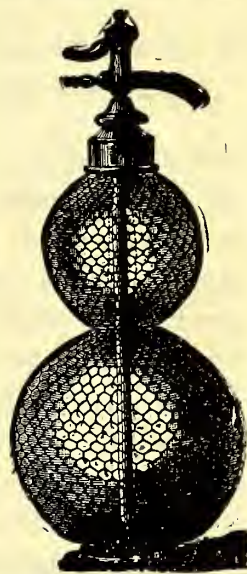
1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.

Messrs. ROYES BROS., 48 Queen Street, Melbourne, Victoria,
Agents for Victoria, South and West Australia, and Tasmania.



IMITATED BUT NOT EQUALLED!!

MASON'S IS THE ORIGINAL EXTRACT OF HERBS

No other Extract makes Beer like it!!

INVENTORS AND MANUFACTURERS—

NEWBALL & MASON, NOTTINGHAM.

BARNETT & FOSTER, MANUFACTURERS. THE "COMPACT" CONTINUOUS ACTION SODA-WATER MACHINE.

For use with the Liquefied
Carbonic Acid Gas.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

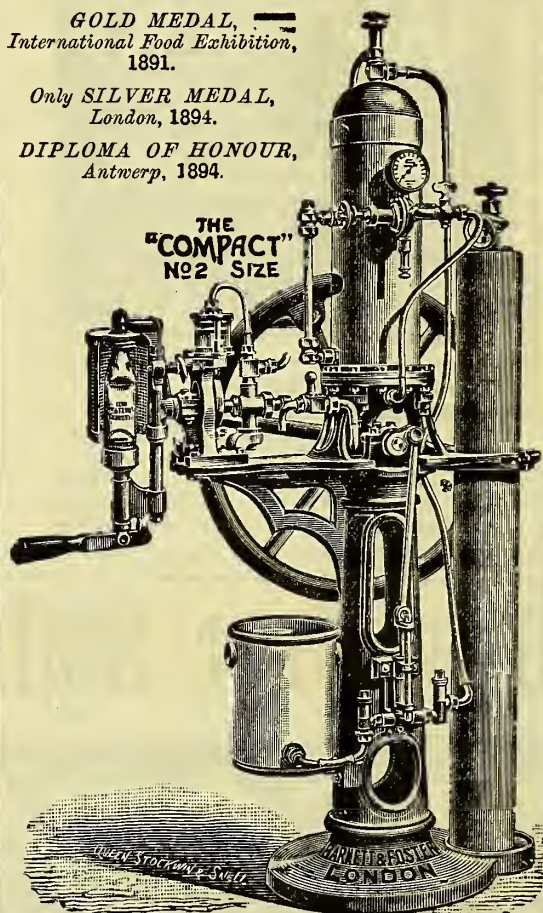
**NO DANGER.
NO MESS.
PERFECTLY
RELIABLE.**

**TWO FILLERS
INCLUDED.**

GOLD MEDAL,
*International Food Exhibition,
1891.*

*Only SILVER MEDAL,
London, 1894.*

DIPLOMA OF HONOUR,
Antwerp, 1894.



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

**In use by
Leading Chemists in
all parts of the
United Kingdom.**

No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£60**

Producing Capacity by Hand-power 600 dozen per day.

" " Power 1,200 " "

No. 2 Size, complete with Turnover and Syphon-filling Machine ... Code word (*Royalist*) **£48**

Producing Capacity by Hand-power 350 dozen per day.

" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon-filling Machine ... Code word (*Retailer*) **£33**

Producing Capacity by Hand-power 200 dozen per day.

Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices.

SOLE INVENTORS AND MANUFACTURERS OF THE

**"NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON
KNOWN ALL OVER THE WORLD.**

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

NIAGARA WORKS, 26^T EAGLE WHARF ROAD, LONDON, N.



DAN RYLANDS, LIMITED.

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.



GLASS BOTTLE DEPARTMENT.

We have had over TWENTY YEARS' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. RYLANDS' "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aerated-water trade.

Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

ESSENCE DEPARTMENT.

Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.

Try "MELOKA," Our New Beverage.

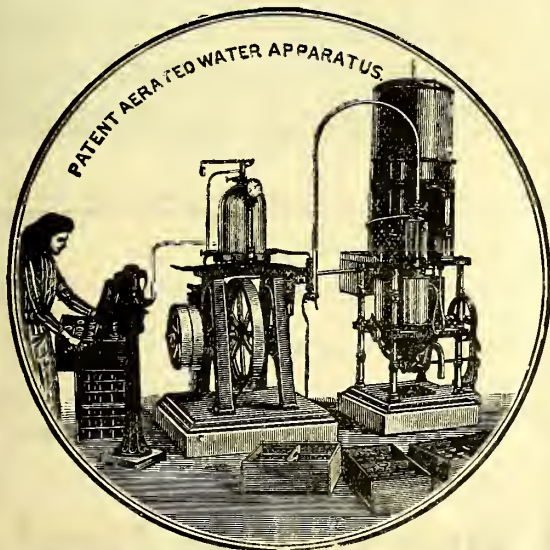


SODA-WATER MACHINERY DEPARTMENT.

This Machinery possesses exceptional merits. The Aerated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

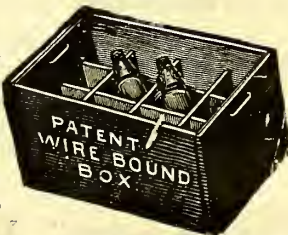
We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aerated Water making. They are strong, simple, easily managed, and reliable. Pure Compressed Carbonic Acid Gas supplied.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been nearly 5,000 sold.



BOX DEPARTMENT.

Our PATENT WIRE-BOUND and "DINO" BOXES are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In our boxes, the wire is well protected from wet and rust, and these boxes are the strongest, lightest, and neatest in the trade.



Catalogues and Price Lists free on application.

DAN RYLANDS, LIMITED, BARNESLEY, ENGLAND

TO CHEMISTS

WHO ARE INTERESTED IN THE

SYPHON TRADE

Now that the Season for Mineral Waters has arrived, the Directors of CAMWAL, representing as they do a large proportion of the Chemists of the United Kingdom, wish to advise those who have not yet joined CAMWAL to consider well before making any fresh arrangements for the present Season.

CAMWAL would ask Non-Members to consider what they are doing, in either starting to sell, or continuing to sell the Waters of any maker who does not give them a guarantee that he will for all time supply Chemists only.

The following are a few points worth thinking over:—

It is a well-recognised fact amongst Makers in the Syphon branch of the Mineral Water trade that the retailers of highest standing and best class are the Chemists. Naturally, therefore, a Maker who wants to do a Syphon trade will do all he can to secure Chemists as his first customers, for by inducing them to stock his goods he hopes to lend a certain air of respectability to his business.

It is principally for this reason, and not because he does the largest trade, that the Chemist is courted so assiduously, and can buy cheaper and better than either the Grocer, the Wine Merchant, or retailers of a lower class.

CAMWAL warns brother Chemists who are not yet members against acting the part of the cat's-paw, decoy, or lever whereby manufacturers introduce their Waters to the public, and asks them the following important questions:—

What guarantee have they that, after spending time and trouble in establishing a sale for any particular Water, the same Water will not at some future time be supplied to neighbouring Grocers, Wine Merchants, Chandlers, &c.?

Even if at first the Waters the Chemist is persuaded to take up are supplied to Chemists only, what guarantee has he from the manufacturer of any continuity of this policy?

It would be well if the Chemist asked the representative who calls upon him the following questions:—

1. Does your firm supply Chemists only from all its branches?

2. Will your firm give me a guarantee, in writing, to supply Chemists only till 1910 say?

On the enormous advantage to the Chemists in having a brand of their own it is hardly necessary to enlarge.

The Chemist who has introduced any brand of which he has not a guarantee of the sole sale is in a most unenviable position. He must either start again with the knowledge that he has wasted time, or be content to share the sale with others who are much beneath him in the retail trade.

Why do not ALL Chemists join CAMWAL, who by their Memorandum of Association are bound for all time not to supply any retailers other than Chemists?

They will then be selling a Water no one else can obtain at first hand, thus raising themselves out of the ruck of Mineral Water retailers.

Neither Directors nor Managers have power now or in the future to change the CAMWAL rule as to the supply of Waters to Chemists only. Can this be said of any other house in the trade?

If Country Chemists will communicate with CAMWAL, arrangements can probably be made whereby they can be supplied at a price (inclusive of all carriage) which will compare favourably with the terms offered by Local Manufacturers, thus enabling them to deal with their own Association.

The Chemists' Aërated and Mineral Waters Association, Limited,

“CAMWAL,”

LONDON, BRISTOL, HARROGATE & MITCHAM.

Head Offices—45 Gifford Street, Caledonian Road, N.

JEWSBURY & BROWN

Have pleasure in announcing that they have removed to New
Premises at

ARDWICK GREEN, MANCHESTER,

WHICH HAVE BEEN SPECIALLY DESIGNED FOR THE MANUFACTURE OF

MINERAL WATERS, AND BREWED GINGER BEER, Aërated Beverages.



The
LABORATORIES, MACHINERY,
and APPLIANCES are
THOROUGHLY UP TO DATE,
and the Water Used comes only in
contact with Pure Tin and Slate,
thus absolutely avoiding any
dangerous metallic contamination.
As heretofore, only the Finest
Qualities of Materials will be used
in every department. We rely on

the quality of our productions to ensure for them a preference with the consumer who
requires a safe and refreshing beverage of absolute purity.

Chemists who have not Stocked these Waters are invited to write for Prices.

SPECIAL Read the important official analysis on page 323
NOTE. ~~~~~ of the Diary for current year. ~~~~~

CARRIAGE PAID ON WATERS & RETURNED EMPTIES.

JEWSBURY & BROWN, Mineral Water Manufactory,
ARDWICK GREEN, **MANCHESTER**
ORDERS FOR EXPORT AND SHIP STORES RECEIVE SPECIAL ATTENTION.

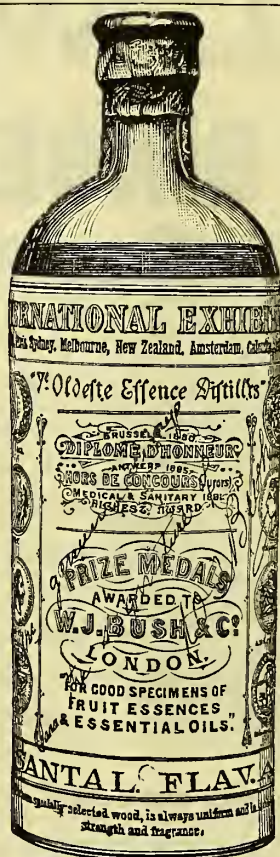
W. J. BUSH & CO.'S

PHARMACOPŒIA

ESSENTIAL OILS

Packed in Original 1-lb. Bottles.

Ol. Anisi Ang.
Ol. Amygd. Essent. Ang.
Ol. Anethi Ang.
Ol. Anthemid. Ang.
Ol. Carui Ang.
Ol. Caryoph. Ang.
Ol. Cinnam. Ver. Ang.
Ol. Copaibæ Ang.
Ol. Coriand. Ang.
Ol. Cubebæ Ang.
Ol. Juniperi Ang.



Ol. Menthæ Pip. Ang.
Ol. Myristicæ Ang.
Ol. Pimentæ Ang.
Ol. Santal. Flav. Ang.

ALL OWN DRAWING.

Ol. Bergamot, Extra
Ol. Eucalypti, Extra
Ol. Lavand. Flor., Extra
Ol. Limonis, Extra
Ol. Rosmar., Extra

DIRECT IMPORTATION.
SPECIALLY SELECTED.

It is imperative that Chemists and others requiring Essential Oils for Medicinal purposes should purchase genuine and finest qualities only. These can only be obtained from W. J. BUSH & CO., who supply them as above, in 1-lb. Bottles, and guarantee their quality and purity. Nearly all Essential Oils offered in the Market are Impure.

W. J. BUSH & CO., MANUFACTURING CHEMISTS,
DRAWERS OF ENGLISH ESSENTIAL OILS,
18 ARTILLERY LANE, LONDON.
Works—ASH GROVE, HACKNEY.

WHAT TO ASK THE TRAVELLER FOR.

IN order to suit the convenience of those who wish to test the value and saleability of our goods, we have made arrangements by which a supply of our specialities may be ordered through any wholesale house. Please ask your traveller for

POTTER'S HERB BEER EXTRACT.

THOROUGHLY RELIABLE AND SATISFACTORY. 6d. bottles, 3/6 per dozen. Posters Handbills, &c., with all orders.

POTTER'S HERB BEER EXTRACT (in Bulk).

For the convenience of those wishing to bottle their own. Price 8d. per lb., 60/- per cwt. Casks (1½ cwt.), 56/- per cwt.

POTTER'S HEADACHE POWDERS.

Retails at 1d. each. Formula absolutely unique. No injurious effects. Acts rapidly. Boxes containing 20 powders, 9/- per dozen. On handsome cards, 7/- per gross.

POTTER'S IMPROVED CORN PAINT.

Retails at 4d. each. Has had a phenomenal sale. Always of the same efficacy and power. On 1-dozen cards, at 2/8 per dozen.

POTTER'S HERB SOAP.

Retails at 6d. per tablet. Composed of vegetable emollients. One of the daintiest and purest soaps ever invented. The best for Skin Diseases. In 1 dozen boxes, price 3/- per dozen.

POTTER'S SALTS, SARSAPARILLA & SENNA.

In 1d. packets. Guaranteed to contain the articles mentioned. Tastefully packed in boxes of ¼ gross. Price 7/- per gross.

POTTER'S MEDICINAL HERBS IN PACKETS.

Each packet gives directions for use, explanation of the properties of herb, and in most cases a valuable recipe. Supplies of the pamphlet entitled "Popular Herbal Remedies," also Show-cards, Bills, &c., sent free. Contents of packets guaranteed to be pure and of the best quality. Price 7/- per gross.

Our Complete List will be posted free to anyone in the trade on receipt of postcard.

POTTER & CLARKE, WHOLESALE BOTANIC DRUGGISTS,

60, 62, and 64 Artillery Lane (late Raven Row), LONDON, E.

And at 54 GT. ANCOATS STREET, MANCHESTER.

DIGENA TEA.

For Sale by Chemists and Druggists Only.

DIGENA TEA being composed chiefly of the finest China shipments, is strongly recommended for its refreshing and digestive qualities.

The late "**Sir Andrew Clarke**" stated that if you want to have Tea which will not injure, and which will refresh you, you must obtain **Black China Tea**.

It is also a most excellent and absolutely perfect Tea of remarkable Purity.

Packed in lead Packets, 1 lb., $\frac{1}{2}$ lb., and $\frac{1}{4}$ lbs. Retail 1/10 per lb. Wholesale (net), 1/5 $\frac{1}{2}$ per lb. Orders of 60 lbs. weight sent Carriage Paid.

CERTIFICATE OF ANALYSIS.

I can confidently bear testimony to the exceeding purity and superior quality of "Digena Tea," which is especially suited for use by those who suffer from impaired digestion and nervousness.

(Signed) GRANVILLE H. SHARPE, F.C.S., Analyst.

The Digena Tea Co.

Have appointed Messrs. W. EDWARDS & SON, 157 Queen Victoria Street, E.C.,

THEIR SOLE WHOLESALE AGENTS.



TOWER TEA

FIVE HIGHEST AWARDS, LONDON & PARIS.

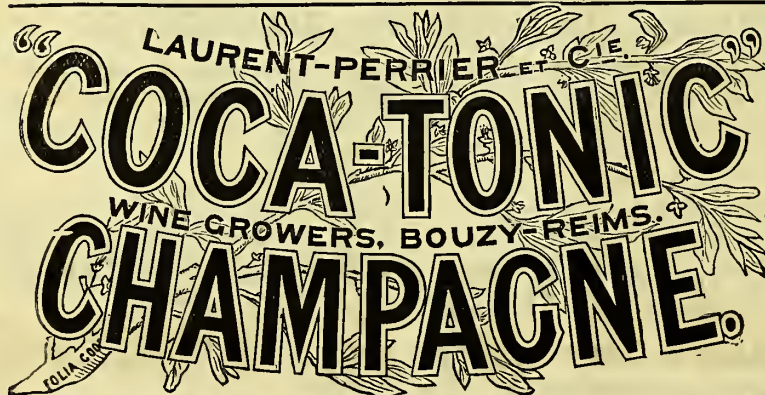
None genuine without both the Registered Trade Mark and also the signature

Tower Tea

TOWER TEA daily gains in popularity with the public.
TOWER TEA is packed in smart, airtight packets, and in handsomely decorated tins.
TOWER TEA is retailed at prices ranging from 1/- to 2/8 per pound.
TOWER TEA is sold by Chemists in all parts of the United Kingdom.
TOWER TEA advertisements are suitable for high-class Chemists' establishments.

AGENTS APPOINTED BY

THE GREAT TOWER STREET TEA CO., LTD., 5 JEWRY STREET, LONDON, E.C.



SUGAR FREE.

Carefully Standardised.

Prepared by Actual
Champagne Growers.

Prescribed as the Best
Restorative Tonic for
Influenza, and in cases
of Insomnia, Neurasthenia, etc.

In Bottles, 2/- and 3/9.

Full Particulars of HERTZ & COLLINGWOOD, 4 SUSSEX PLACE, LONDON, E.C.

EIGHT PRIZE MEDALS AWARDED**GOODALL'S
HOUSEHOLD
SPECIALITIES.****YORKSHIRE RELISH.**

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

GOODALL'S BAKING POWDER.

The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins.

GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 Eggs. In 1d. packets; 6d., 1s., and 5s. Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. 1s. Boxes, 2d., 6d., & 1s. each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3d. and 6d.

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In 1-pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

**PATENT MEDICINES
AND
DRUGGISTS' SUNDRIES.**

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.**BOVRIL**THE VITAL PRINCIPLE OF PRIME OX BEEF, IS
50 TIMES MORE NOURISHING THAN ORDINARY
EXTRACT OF MEAT OR HOME-MADE BEEF TEA.

BARON LEIBIG discovered and publicly avowed the unsuitableness of Meat Essences, Meat Extracts, and home-made Beef Tea as resuscitating agents or as food in any direct sense.

BOVRIL was introduced to supply the nourishment so conspicuously absent in these preparations, and this is secured by the introduction of albumen and fibrine (or rather the entire lean of beef) desiccated at a low temperature by special process, and subsequently pulverised to a minute degree of subdivision. By this means the entire nourishment of animal food is adapted to the feeblest and most sensitive stomach, and perfect assimilation is secured with the least possible expenditure of vital energy.

INVALID BOVRIL

Is specially prepared for use in the Sick Room. It is put up in porcelain jars and sold by chemists and druggists only; and it differs from ordinary Bovril in being more concentrated and quite devoid of seasoning.

It is the most perfect form of concentrated nourishment at present known, and is enjoyed by Invalids when ordinary food and stimulants are rejected.

BOVRIL, LTD., Food Specialists, LONDON.

Chairman—RT. HON. LORD PLAYFAIR, K.C.B., LL.D.

50% PROFIT FOR YOU.*If you want a selling line, try***PEGG'S
'URBOSE'****A powdered Herbal Extract for making
HERB BEER.***In 1d. & 3a Packets, making 1 & 5 gallons.*

Send Postal Order for 5/-, and I will send you Carriage Paid, as a Sample, 3 dozen 1d. and 1½ dozen 3d. Packets.

PRICES FOR QUANTITIES ON APPLICATION.**J. A. PEGG**Manufacturing Chemist,
MANSFIELD, NOTTS.

CHEMISTS & DRUGGISTS SHOULD ORDER AT ONCE THE NEW PATENT GOODS.

LUSBY'S

"PINOZA"

TOBACCOS, CIGARS,
CIGARETTES, & SNUFFS.

Special Terms given to Wholesale Druggist houses, who will be appointed Sole District Agents.

EDW. J. LUSBY,

Patentee.



REGISTERED TRADE MARK.

Telegraphic Address :

"LUSBY LONDON."

Tobaccos treated under Edw. J. Lusby's Patent System possess the following advantages :—

1. It neutralises the deleterious effect of Nicotine.
2. The quality of the Tobacco and aroma is unimpaired.
3. Is the finest Disinfectant and safeguard against all contagious diseases.
4. Relieves Asthma, Catarrh, Influenza, and is extremely beneficial in all affections of the throat and lungs.

SPECIAL NOTICE.

1. Write for Leaflets and Price Lists explaining new system, now ready.
 2. All articles show a good retail profit, and "Cutting" is prevented.
 3. Handsome Show Cards and Window Tickets delivered with all goods.
 4. Sole Agents appointed in small towns. Large Towns, District Agents appointed.
 5. For acute sufferers of the Throat and Lungs extra strength "PINOZA" is infused in the Special "FACULTY" brand only.
- LASTLY. Orders will be executed in rotation. Order at once to ensure despatch with the first delivery.

LUSBY'S "PINOZA" TOBACCO CO., 10 MINORIES, LONDON.

CHEAPEST.

WITH COVERED
SPRING LINING.

PARCEL POST BOXES

4 oz. 8/6, 6 oz. 9/6, 8 oz. 10/-, 10 oz. 10/6, 12 oz. 11/6, 16 oz. 15/- per gross.

MOST PERFECT.

SPECIALLY ADAPTED
FOR BOTTLES.

THE "EUREKA" SERIES OF FOLDING BOXES FOR BOTTLES, &c.

4 oz. 3/-, 6 oz. 3/6, 8 oz. 4/-, 10 oz. 4/6, 12 oz. 5/-, 16 oz. 6/- per gross plain.

Of superior appearance, for fixing Chemists' own labels on. Supplied folded or flat, or made up firm, open at one end. Also supplied printed in Gold, Blue, &c. Quotations on receipt of particulars. Above in stock, forwarded same day, F.O.R., on receipt of cash.

C. C. KIRTLEY, Printer and Card Board Box Manufacturer, 3 Elswick Court, NEWCASTLE-ON-TYNE.



ROBINSON'S LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.L.S.,

Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).
December 15, 1888.

ROBINSON'S ORANGE WINE.

Specially prepared for Quinine Wine, does not deposit, will keep good in any climate, and well adapted for Export Trade. Supplied in Cases containing 9, 18, 30, 60, or 120 Gallons. Terms on application. [X]

ROBINSON'S LEMON SQUASH.

This delightful Summer Beverage is produced solely from the finest fresh Messina Lemons, the juice of which is clarified from all muddy deposit, the fine aromatic flavour of the Peel is extracted and added to the prepared juice, thus securing a far more delicate and refreshing drink than can possibly be obtained by the old clumsy method of squeezing the lemon, &c. Sold in Bottles, reputed quarts, at 1s. each.

B. ROBINSON, Distiller and Brewer of British Wines, Church St., Pendleton, Manchester.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.		Per gross.	Extra quality.
1d. Sample Bottles, dozen parcels	5/3	6/3	1/2 Bottles, flat or round, reputed half-pints ..	16/-	25/-
1d. Giant " 1/2-gross boxes	5/9	6/9	1/2 " " " pints ..	26/-	38/-
1d. Giant " dozen parcels	6/-	8/6	1 Pint Imperial, round stoppered bottles ..	52/-	62/-
" " 1/2-gross boxes	6/6	9/-	12 1/2-Gallon Casks (casks free)	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly 1-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

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CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

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THE CHEMISTS' BRAND.

THE TESTIMONY OF "THE LANCET."

The following is from "THE LANCET" of March 30, 1895.

"The above brand has long been known to be of standard purity. We found the specimen to be completely soluble in water and entirely free from impurities of any kind. It is, therefore, well adapted for the pharmaceutical purpose for which it is so useful, while as a popular demulcent it is both safe and reliable."

Recommended also by "The British Medical Journal," "Health," "The Chemist and Druggist," "Food and Sanitation."

ASK FOR SHOWCARDS AND HANDBILLS.

A. MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

(VINUM AURANTIL, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

THE MAWSON FILTERS.

(BY ROYAL LETTERS PATENT).

GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.

New Illustrated Catalogue and Prof. Titchborne's special report forwarded on application.

THE MAWSON FILTER CO., 137a Pilgrim Street, NEWCASTLE-ON-TYNE.

SOLD BY ALL WHOLESALE DEALERS.

UNSWEETENED (Condensed) MILK

"FIRST SWISS" BRAND.

THE PERFECT FOOD FOR INFANTS AND INVALIDS. ALL DOCTORS RECOMMEND IT.

Ask for and accept only the "First Swiss" Brand.

London Offices — 5 LAURENCE POUNTNEY HILL, E.C.

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M. PETERSON & CO.

6 HOUNDSDITCH, LONDON.

FOR HOME, FOREIGN, & COLONIAL MARKETS.



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This Section of "The Chemist and Druggist" must be closed for press by Tuesday morning's post of each week. Remittances payable to EDWARD HALSE.

TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of 6d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C." and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word—as, e.g., 1l. 10s. 6d.

FOR DISPOSAL.**Shop Fittings.**

Two plate-glass show-stands, as Maw's list,
No. 4, equal to new; what offers? J. Neale,
21 George Street, Woolwich.

Miscellaneous.

Rich gold bronze; 1 lb. post free for 1s. 11d., or
offers for about 21 lbs. Hare Chemist,
Nottingham.
Light diamond-frame pneumatic safety, tangent
spokes, balls everywhere; sacrifice, 5l. 10s.
Guy, Chemist, Grays, Essex.

WANTED.

A No. 10 (or larger) sized powder-mortar,
in good condition, with or without pestle;
cheap. Thomas, Chemist, Treharris.

Address Wanted.

The present address of C. W. Shepherd, Chemist
late of Ilkley, Yorkshire. 92/55, Office of
THE CHEMIST AND DRUGGIST, 42 Cannon
Street, E.C.

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Unrivalled for excellence of quality and ease of manipulation. Gives clear whites, exquisite tone, and high gloss; will neither curl, frill, nor blister; incomparable for ease and rapidity of working. Great depth and variety of tone.

In white, pink, mauve, and puce—the last specially recommended for export.

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Possesses all the excellent qualities and characteristics which distinguish glossy Solio, and is printed, fixed, and toned in exactly the same manner.

The tones are exceedingly delicate, ranging from warm sepia to soft black.

Great richness of detail, softness, and fidelity of gradation are obtained.

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For enlarging, or for printing by contact from negatives. Unequalled for perfection of coating, delicacy of gradation, clearness and depth of shadows, and uniformity.

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No other paper gives such perfect results with so little retouching.

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Published at the Offices of THE CHEMIST AND DRUGGIST, 42 Cannon
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FOR

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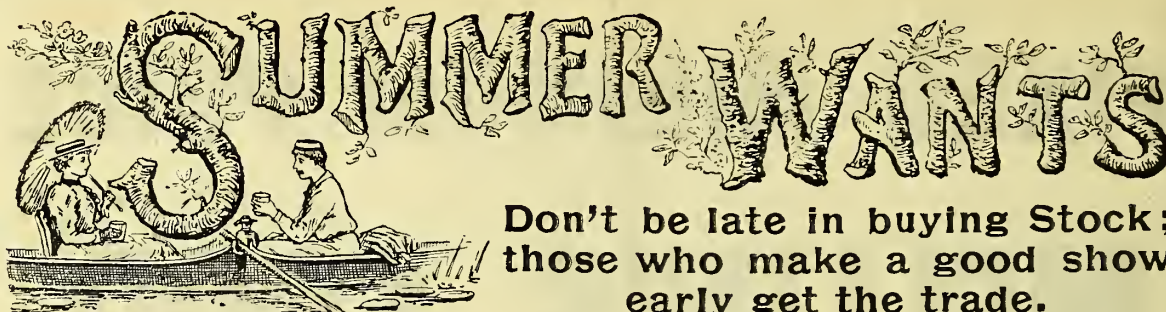
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PECKHAM,



Don't be late in buying Stock;
those who make a good show
early get the trade.

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8 oz. Cheltenhams, Plug Stopper, each in cartoon (6 doz. with buyer's name) ...	8/- doz
6-oz. Cheltenhams, White Glass, with attrac- tive label, bearing no name ...	4/6 "
4-oz. Tins, self-opening, with coloured label	2/6 "
2-oz. Tins, lift-off lid, retail 2d. ...	14/- gr.

This Saline is thoroughly dried; will keep well.

SEIDLITZ POWDERS.

Guaranteed prepared according to the British Pharma-
copœia with English Acid and Howard's Soda Tart.
Each Powder weighed, good paper, and neatly
wrapped.

In Lift-off Lid Boxes ...	4/6 doz.
1-gross Boxes, with buyer's name, 52/-.	

SPECIAL.—In Embossed Hinged Box,
Howard's Pulv. Seidlitz, fancy wrapper ... 4/9 "
1-gross Boxes, 4/6; or with name on wrapper
and label, 4/9 doz.

AMERICAN ENEMAS.

Finest White Rubber, with 3 Vulcanite Pipes in wood box complete ...	22/- doz.
---	-----------

These Enemas are splendid value, the rubber lasts for years.

EFFERVESCENT CITRATE MAGNESIA. Good Quality.

6-oz. Dark Blue Flats ...	2/- doz.
12-oz. " " with Plug Stopper ...	6/6 "
$\frac{1}{4}$ -lb. White Glass [Kalis, actual weight ...	3/9 "
$\frac{1}{2}$ -lb. " " ...	6/6 "
1-lb. " " ...	10/9 "

Special prices for quantities of 1 gross and upwards.

THE ACME LLOOFAH BATH MAT

Is a real luxury; it is always dry and warm to the feet.
In two sizes, 18/- and 21/- doz.

LLOOFAHS.

Small, 1/-; Good, 3/-; Very Fine, 6/- doz.

CARBOLIC POWDER.

1d. Packets, half-gross boxes ...	6/6 gross.
4d. Tins, attractive wrapper ..	2/- doz.
6d. " decorated black and gold ...	3/6 "
1/- " " " " ...	6/6 "

This bears no name, only Acme Brand.

INSECT POWDER.

1d. black and gold, decorated tins ...	5/- gross.
3d. attractively-labelled tins ...	12/- "
6d. " " " " ...	24/- "
1 - " " " " ...	39/- "

Bears no name, only Acme Brand.

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NEW ACCOUNTS MUST BE ACCOMPANIED BY REFERENCE OR REMITTANCE.

HOCKIN, WILSON & CO.
Wholesale Druggists & Druggists' Sundriesmen,
13 to 16 New Inn Yard, Tottenham Court Road, LONDON, W.

Telephone Number, 1852.

Telegraphic Address—CHEMICUS LONDON.

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Association, Lim.Eille & Son (Enthlin)
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Stephen Smith & Co. (Hall's)

COD-LIVER OIL

Allen & Hanburys

Burrourges, Wellcome & Co.

Evans, Sons & Co.

Hill, A. S., & Son

Hockin, Wilson & Co.

Kemp & Son

Linton, Hubbard & Co.

Lofoden Cod Liver Oil Co

Lorimer & Co.

Möller, P. | Moss, J., & Co.

Richardson, J., & Co., Lim.

Smith, T. & H., & Co.

CONCENT. LIQRS.

Baiss Bros., & Co.
Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co.
Richardson, J., & Co., Lim.

CORKS

Johnson & Co.

CORN CURES

Gardner, C.

COTTON WOOL

Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons
CRUSH LINSEED
Barclay & Son, Lim.
Mumford, G. S.

DENTIFRICES, &c.

Beecham, T.
Bromley, H. & Co.
Fentiman & Co.
Hovenden & Sons
Jewsbury & Brown
Lakeman, J. J. | Stevens, P. A.
Lutheal & Co.
Sutton, O., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Aroca Nut)

DIPHTHERIA**REMEDY****DISINFECTANTS**

Barclay & Sons, Lim.
Beedler & Co. | Brooks, T.
Cotton, W.
Drysdale, J. W., & Co.
Fletcher Bros., & Co.
Government Sanitary Co.
Hebden, W. G.
Jeyes' Sanitary Compounds Co.
Lake, Millar & Co.
Mackay, Mackay & Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Neas & Co.
Odam's Chemical Co., Lim.
Sanitas Co., W., & Co.
Seabury & Johnson
Tyrer, T., & Co., Lim.
Wandsworth Chemical Works,

DOG MEDICINES

Spratt's Patent, Lim.

DRUGGISTS' SUN.

Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale & Co., Lim.
Chemists' Association, Lim.
Coles Pneumatic Vaccination
Shield Co., Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Feaver, J.
Fordham, W. B., & Sons, Lim.
Hatrick & Co., Lim.
Hockin, Wilson, & Co.
Hovenden & Sons
Howard, J., & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Palmer & Co., Lim.
Quehlo, H. C.
"Kypona"
Sanger & Sons | Schutze & Co.
Tidman & Son | Toogood, W.
Turnbridge & Wright
Wood, Vincent

DRUGS

Allen, S., & Sons Grinders
Bleasdale & Co., Lim. 'Graf',
Hopf, E., Morris, J., & Co.
Oppenheimer, Son & Co.
Phillips & Co. (Grinders)
Richardson, J., & Co., Lim.
Saunders Bros.
Stevenson, H. E., & Co.

DYES, &c.

Crawshaw & Co.
Hatrick & Co. Ltd., 'Diamond'

EAU DE COLOGNE

Farina, J. M.
Hockin, Wilson, & Co.
Muhlen, F.
Van Oppen & Co.

ECZEMA

Cullwick's Skin Ointment
Cullwick's Blood Tablets

EMBRICATION

Day & Sons
Elliott & Sons & Co.
Harvey & Co.
"Kypona"
Walker's "Smothe"

ENEMAS

Barclays, Lim.
Evans, Sons & Co.
Hatrick & Co., Lim. ("Rack")
Sanger & Son | Wood, Vincent
Corsan, J. B.

ESSENCES

Boulton, J. & Co., Lim.
Bovril, Lim. (Beef)
Brathby & Hinchliffe, Lim.
Burgoyne, Burbridge & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
Idrie & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Newbell & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, F. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ESSENTIAL OILS

Allen, S., & Sons
Boehm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott
Drysdale, J. W., & Co.
Evans, Sons & Co.
Jackson, J. & Co.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Rylands, Dan, Lim.
Sanitas Co., Lim.
Sozio & Andrioli
Spurway & Co.
Stevenson, H. E., & Co.
Stevenson & Howell
Syms & Co. | Todd, A. M.
Treatt, E. C. | Warrick Bros.
Wright, Layman & Umney

ETHER

Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS

Bush, W. J., & Co.

EXTRACT MEAT

Armour & Co. | Brand & Co.
Liebig Co.
Liquor Carnis Co.

EXTRACTS, FLUID

Allen & Hanburys
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbridge & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Heaton, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Rylands, W., & Son
Richardson, J., & Co., Lim.
Wright, Layman & Umney

EXTRACTS, SOLID

Allen, G., & Co.
Ransom, W., & Son

FEED BOTTLES

Burroughs, Wellcome & Co.
(Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Hovenden & Sons
Kilner Bros.
Marriott, E. & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Sanger Bros. | Youldon, E.

FILTERS

Fordham, W. B., & Sons, Lim.
Mawson Filter Co.

FLY PAPERS

Bleasdale, Lim.
Buchan, D. D.
Ford, Shapland & Co.
Marshall, E.
May, Roberts & Co.
Silverlock, H. | Strong, Christy
Smith, J. H.
Tidman & Sons
Turnbridge & Wright

FOOD (Infants & Invalids)

Allen & Hanburys
Benger's Food
Brand & Co.
Cerebos Salt Co., Lim.
Evans, Sons & Co.
First Swiss Milk Co., Lim.
Glendinning, W., & Sons
Goodall, Backhouse & Co.
Heaton, Squire & Francis
Liquor Carnis Co.
Liebig Co. | Lorimer & Co.
Mellin's Food | Nestlé, H.
Tyrer, P.

FULLERS' EARTH

Barclay & Sons, Lim.
Fullers' Earth Mining Co., Lim.

GELATINES

Boehm, F.

GINGER ALE

Brathby & Hinchliffe, Lim.
Chemists' Association & Mineral
Water Association, Lim.
Ellis & Son
Mills, R. M., & Co.
Ross & Sons, Lim.
GLYCERINE
Blyden, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.

GRANULAR PREP.

Bishop, A., & Sons
Blyden, Astley & Co.
Boulton, J., & Co.
Evans, Sons & Co.
Heaton, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
Wright, Layman & Umney

GUM

Fink & Co. (Arabic, &c.)

HAIR PREP.

Bates, F. W.
Chesbrough Co.
Edwards & Co.
Truefitt, H. P., Lim.

HERB BEER EXTS.

Newhall & Mason
Pegg, J. A.
Potter & Clarke
HOMOPATHIO
Keene & Ashwell
Leach & Ross
Watson & Watts
HYPOPHOSPHITES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.
INHALERS
Burroughs, Wellcome & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Martindale, W.
Taroood, W.

INK

Bewley & Draper, Lim.

INSECTICIDES

Barclay & Sons, Lim.
Fleming's Oil and Chemicals
Co. (Lim.) (Moths)
Hockin, Wilson & Co.
Jackson, T. (Bellows)
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell

JELLOIDS

Warrick Bros.

KETCHUP

Tyrer, P.

KOLA

Christy & Co.
Moss, John, & Co.

LAMPS

Caspar & Co.

LARD

Ewen, J., & Sons

LIME JUICE

Evans, Sons & Co.
Lorimer & Co.

LINT

Burgoyne, Burbridge & Co.
Christy, T. & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORIC

Dennis Di Luzzo & Co.
Evans, Sons & Co. (Savarini)
"Solazzi"

LIQUORS

Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.

LOZENGES

Allen & Hanburys
Blyden, Astley & Co.
Gibson, K., & Sons (Mantra).
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Richardson, J., & Co., Lim.
"Solazzi"
Warrick Bros.

MACHINERY

Bennett, Sons & Shears Lim.
Gardner, W.
Hockin, Wilson & Co.
Mellin, C. | Phidlar, J. W.
Werner & Phidlarer (Knead-
ing and Sifting)

MAGNESIA

Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lloyd, T. Howard, & Co.
Lorimer & Co.
Washington Chemical Co.

MALTEXTRACT, &c.

Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co.
(Kepler's)
Glendinning, W., & Sons
(Wine)
Heaton, Squire & Francis
Lofoden Cod Liver Oil Co.
Lorimer & Co., Moss, J., & Co.
Morrison R., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co.
Raines & Co.
Raines, Clark & Co.
Richardson, John, & Co. (Lec-
ester), Lim.
Robinson & Co.

MANICURE

Hovenden & Sons

MARKING INKS

Bond (Daughter of the late
John) (Ink & Penicill)
MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Stevenson, H. E., & Co., Lim.
Tyrer, T., & Co., Lim.

MENTHOL

Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, F.
MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRITS, &c.

Boord & Son | Burroughs, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.
Warren, A., & J.

METHYLENE

Robbins, J., & Co.

MICROSCOPES

Darton, F., & Co.

MILK

Nestlé, H. (Condensed)

MORPHIA

Macfarlan, J. F., & Co.

Smith, T., & H., & Co.

OILS

Bowley, S., & Son
Hooper, B., & Co. (Sandal Wood)

OINTMENT BASES

&c.
Burroughs, Wellcome & Co.
(Lanoline)
Chesbrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Lecith-
ter), Lim.
Bypons
Stevenson, H. E., & Co.

OPIUM

Hopf, R.

OPTICIANS

Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

OTTO OF ROSE

Warrick Bros.

OXIDE OF ZINC

Hubbuck, T., & Son, Lim.
Stevenson, H. E., & Co.

PALATINODS

Oppenheimer, Son & Co.

PASTILLES

Jackson, T.

PAT. MEDCNS, &c.

Anglo-American Drug Co.
Lim. (Preserv.)
Atkinson & Barker (Infant
Bath & Soap Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Chemists' Association, Lim.
Clarke's Blood Mixture
Cullwick's Skin Ointment
Cullwick's Blood Tablets
Edwards & Son
Evans, Lecher & Webb
Fassett & Johnson
Feunung (Powders)
Goodall, Backhouse & Co.
(Hermanine)
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphorus, &c.)
May, Roberts & Co.
Newbery, P., & Sons
Norton & Co. (Influenza cure)
Potter & Clarke
Roberts & Co.
Warner, H. H., & Co., Lim.
Wilkinson & Co.
Wilson, A. (Bunter's Nerveine)

PEPPERMINT OIL

Bush, W. J., & Co.
Jakes, J., & Co.
Ransom, W., & Son
Stevenson & Howell

PERFUMERY,**FANCY SOAPS**

Areahur, F. (Ketoa Musk)
Barclay & Sons, Lim.
Bleasdale & Co., Lim.
Blondeau & Cie. | Boehm, F.
Blyden, Astley & Co.
Brooks, T. (solid)
Burgoyne, Burbridge & Co.
Burgoyne, Wellcome & Co.
Rush, W., & J., & Co.
Chemists' Association, Lim.
Chesbrough Co.
Evans, Sons & Co.
Ewen, J., & Sons | Farina, J. M.
Hovende & Sons
Kemp & Son
Lanoline | Muhlen, F.
Lynn, J. H. Co.
Newbery, J., & Sons (Bardes)
Pears, A., & F., Lim.
Price's Patent Candle Co.
Sharp Bros. Soaps & Perfumery
Co., Lim.
Sozio & Andrioli
Tidman & Son | Treest, E. C.
Truefitt, H. F., Lim.
Van Oppen & Co.
Warrick Bros.
West, T. (Okell's Monn)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PERSIN, &c.

Burroughs, Wellcome & Co.
Newbery, F., & Sons (Laguvin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.
Warner & Co. (Laguvin)

PEROX. OF HYDR.

May & Baker, Lim.
Robbins & Co. | Tyrer, T., & Co.
Sanitas Co., Lim.

PETROLEUM

Allen & Hanburys
Christy, T., & Co.
Des Oil Co., Lim.
Hatrick & Co., Lim. ("Lucif-
line")
Snowdon, Sons, & Co. (Jelly)

PHARM. PREPS.

Allen & Hanburys
Antitoxine | Armour & Co.
Baiss Bros.
Barron, Harveys & Co.
Boehm, Fredk.
Boehring, C. F., & Sohns
Boulton, J., & Co., Lim.
Burgoyne, Burbridge & Co.
Burroughs, Wellcome & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Glies Schacht & Co.
Heaton, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Lactophenin
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Martindale, W.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Parke, Davis & Co.
Potter & Clarke
Richardson, John, & Co. (Lei
Roberts & Co. (Lecith-
ter), Lim.
Smith, T., & H., & Co.
Squire & Sons
Stevenson, H. E., & Co.
Syms & Co. | Tyrer, T., & Co.
Trotter Co.

PILL MACHINES

Phidlar, J. W.
Toogood, W. (Coater)
Werner & Phidlarer

PORCELAIN GDS

Toogood (E.c. Pots, regist.)

PHOTOGRAPHIC

Airs & Co. | Barclay & Sons, Lim.
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Darton, F., & Co.
Eastman Photo Materials Co.
Evans, Sons & Co. (Lim)
Fordham, W. B., & Sons, Lim.
Howards & Sons (Chemicals)
Kombi Camera
Raphael, J., & Co.
Thomas, R. W., & Co., Li
Thornmont, Richard Co.
Tyrer, T., & Co.
Vérel, F. W., & Co.
White, Alfred, & Sons
Zimmermann & Co.

PILLS, Coated, &c.

Allen & Hanburys
Anderson Apothecaries' Hall
Becham, Thomas
Blyden, Astley & Co.
Cox, Arthur H., & Co. (tasties)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Heaton, Squire & Francis
Hill, A. S., & Son | Holloway's
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Rackham & Co.
Richardson, J., & Co., Lim.
Walker, D. P.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated
Wyleys, Lim.

PLASTERS

Blyden, Astley & Co.
Dr. St. Dalmat, A.
Ellwood Lee, J. Co.
Evans, Sons & Co.
Johnson & Johnson, Lim.
Mather & Sons
Seabury & Johnson

POLISHING

Bradley & Bourdas (Albaten)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
"Velutin"
Spratt's Patent, Lim.

POULTRY FOOD

Spratt's Patent, Lim.

PRINTING

Bowers Bros.
Corsan, J. B. (Glasses)
Ford, Shapland & Co.
Harrison & Waide
Silverlock, H. | Trowman

QUININE SALTS

Boehring, C. F., & Sohns
Hockin, Wilson & Co. (Wine)
Howards & Sons
Smith, S., & Co. (Wine)
Zimmermann, A. & M.

RENNET

Duncan, Flockhart & Co.
Tomlinson & Hayward
Warren, A., & J. (Yells)

RUBBER GOODS

Burroughs, W., & Son, Lim.

SALICIN

SCHOOLS, &c.

Central School of Chemistry
City School of Chemistry and
Pharmacy, Lim.
Liverpool School
London Homoeopathic and
Medical School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
Newcastle School
Northern College of Pharmacy
North of England School
Sheffield College of Pharmacy
South London School of
Pharmacy, Lim.
Strand College
The School of Pharmacy
Westminster College

**SCIENTIFIC
INSTRUMENTS**

Darton & Co.
Potter & Clarke

SEEDS

SEIDLITZ POWDERS
Blyton, Astley & Co.
Hockin, Wilson & Co.
Hors & Co., Max. Roberts & Co.

SELTZGENES

Brathby & Hinchliffe, Lim.
British Syphon Manufactur-
ers, Sons & Co. (Ing Co.)
Hockin, Wilson & Co.
Max. Roberts & Co.

SHAVING

Hovenden & Sons (Euxesie)
Lloyd, Mrs. A. S. (Euxesie)
Trusitt, H. P., Lim.

SOAP

Aspinall, Edward, Lim.
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau & Cie (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Jeyes' Sanitary Compounds Co.
Lorimer & Co. I. Muhliens, F.
Pease, A. & P., Lim.
Sanitas Co., Lim.
Sharp Bros. Soap, &c., Co., Ltd.
Sinclair, J., & Son
Tidman & Son
United Alkali Co., Lim.
Wright, Layman & Umney
Yardley & Co.

SHOP FITTERS

Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co.
Josephs, P. I. Treble, G., & Son
Yates, W. S.

SHEEP DIP

Fletcher, Bros. & Co.
Jeyes' Sanitary Compounds Co.
Ness & Co.
Odams' Chemical Co., Lim.
Quibell Bros.
Sanitas Co., Lim.
Tomlinson & Hayward, Lim.

SPECTACLES

Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

SPONGES

Cresswell Bros. & Schmitts
Evans, Sons & Co.
Marks, Henry, & Sons (Lim.)
Peterson, M., & Co.

STAMPS (RUBBER)

Hickisson, J.

STARCH

Barclay & Sons, Lim.
Crichtley (Gloss)
Redford & Son (Gloss)

STOPPERS

Austin & Co (Sprinklers)
Barnett & Foster
Birmingham Stoner Co.
Melin, C. I. Orchard, E. (Poison)
Patent Stopper, Box, and
Stamping Co. (Lim.)
Stipendium Stopper Co., Lim.

SURGICAL

Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burdidges & Co.
Cooking, J. T.
Ellwood Lee, J., Co.
Eschmann Bros. & Wals
Ferris & Co. I. Harris, J.
Hartick & Co., Lim.
Haywood, J. H.
Kahnemann & Krause
Krohn & Sassemann
Lambert, A., & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Thompson
Oppenheimer, Son & Co.
Powell & Barstow
Queloh, H. C.
Richardson, John, & Co., Lim.
Robinson & Sons
Sanitas Co., Lim.
Schutze, P., & Co.
Victoria Rubber Co.
Wood, Vincent

STOVES

Clark, S., & Co., Lim.

SUGAR OF MILK

Boehm, Fredk.

SYPHONS

Barnett & Foster
Brathby & Hinchliffe, Lim.
British Syphon Co.
Chemists' Ascerted & Mineral
Waters Association, Lim.
Fordham, W. B., & Sons, Lim.
Iddis & Co., Lim.
Kilner Bros. I. Melin, C.
Rylands, Dan, Lim.

SYRUPS

Blyton, Astley & Co.
Cooper & Co.
Fletcher, Fletcher & Co.
Iddis & Co., Lim. (Liquors)
Stevenson & Howell

TABLETS

Blyton, Astley & Co. (Sulphur)
Caspar & Co., Lim.
Corran, J. R. (Advertising)
Richardson, J., & Co., Lim.
(Compressed)

TEA

Burroughs, Wellcome & Co.
(Tablets)
Great Tower St. Tea Co., Lim.
Pease & Mesking

TEETHING PADS

Marriott, E., & Co.

THERMOMETERS

Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.
Raphael, J., & Co.

TINCTURES

Evans, Sons & Co.
Hawley, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John & Co.
Parke, Davis & Co.
Wyllys, Lim.

TOBACCO & CIGARS

Lushy's Tobacco Co.
Singleton & Co. (Lim.)

TOOTH PASTE

Beecham, T.
Jewshury & Brown
Iutheni & Co.
Maw, S., Son & Thompson
Sutton, O., & Co.
Trusitt, H. P., Lim.
Wilson, A. (Butter's)
Woods, M. (Araca)

TOILET

Aspinall, E.
Allen & Hanburys (Chrimsa)
Ayrton & Saunders
Hates, F. W. (British Paper Co)
Burroughs, Wellcome & Co.
"Cosmosine" (Lanoline)
Dee Oil Co., Lim.
Hockin, Wilson & Co.
Hovenden & Sons
Maw, S., Son & Thompson
Queloh, H. C.
Sanitas Co., Lim. (Co., Lim)
Sharp Bros. Soap & Perfumery
Trusitt, H. P., Lim.

TOOTH PREPS.

Herrmann

TRADE MARKS

Browne, T. B.
Trade Mark Society, Lim.

URETHRANE

Howards & Sons
Vaccines Association (Lymph).

VACCINATION

Vaccine Association (Lymph).

VANILLA BEANS

Lyon, Henri

VASELINE

Cheshrough Co.

VETERINARY

Bird & Storay I. Day & Son
Day, Son & Hewitt
Elliman, Sons & Co.
James, W. H. (Blisters)
Jeyes' Sanitary Compounds Co
Kemp & Son
Lloyd, T. Howard, & Co.
Rackham & Co.
Rookledges, P. E.
Sanitas Co., Lim.
Scratt's (Dogs)
Walker, Troke & Co.
Willson, S. (Pig Powders)

VALUERS &**TRANSF AGENTS**

Bardos & Co. I. Brett, F. J.
Crocker, G. B., & Co.
Fergusson & Osborne
Orridge & Co.
Tomlinson, Thos. & Son

VINEGAR

Champion & Co., Lim.
Grimble & Co.

VINOLIA Superfitt's

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Laxatonic
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Salol
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The above ruling holds good as regards the



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which is now acknowledged as the only scientific way of exhibiting salts of Iron and other easily decomposable and incompatible ingredients. The constituents, being preserved separate from each other, cannot react until their release by the dissolution of the jujube envelope in the gastric secretions.

Physicians are constantly prescribing:—Ferrous Carbonate (Blaud's Pill, 4 gr.), Ferrous Carbonate and Aloes, Ferrous Carbonate and Arseniate, Ferrous Carbonate with Nux and Quinine. Ferrous Carbonate and Arseniate with Nux, Ferrous Phosphate, Ferrous Carbonate with Ext. Cascara and Nux, Hypophosphites Co., Ferrous Carbonate and Potass. Permang., Ferrous Phosphate and Potass. Permang., Ferrous Carbonate and Euonymin, Ferrous Salicylate, Ferrous Carbonate and Strychnine, Ferrous Carbonate and Zinc Valer., &c., &c.

The Malt Extracts on the market are legion, but as a reconstructive, digestive, and bone-forming preparation there is none superior to

CREAM OF MALT

This exhaust of the principles of Malted Scotch Winter Wheat, Barley and Oats, is prepared *in vacuo*, and is rich in all the vitalising constituents of the cereals. In cases of indigestion resulting from a malassimilation of amylaceous foods, Cream of Malt, by reason of its richness in diastase, acts as a dietetic corrective. This preparation is also provided in combination with medicaments, for which it proves a most palatable and valuable vehicle. In conjunction with Chocolate it forms, when dissolved in hot milk or water, a most valuable breakfast beverage.

The following combinations are in general demand:—

Cream of Malt with Cascara Sagrada

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Examples of Modern Pharmacy.

"HAZELINE."

ITS QUALITIES AND CHARACTERISTICS.

Though "Hazeline" is very properly regarded as an outcome of modern pharmaceutical methods, yet it is undoubtedly the fact that the Witch Hazel, a plant indigenous to the American continent, was well known by the Indians to possess the remedial qualities characteristic of this preparation. They are said to have employed Witch Hazel in the treatment of wounds, sprains, &c., as a sedative in painful tumours and other cases of external inflammation, and in certain affections of the eye; and it is possible that the reason the Medicine-men of the Indian tribes were more successful in their use of it than are some latter-day practitioners, was simply because they always used the fresh inner bark in making their preparations. Following up this idea, experiments showed that the whole of the active principles of the Witch Hazel could be obtained from the plant in its fresh condition only, and this best by a process of distillation. "Hazeline," the result of such distillation, may rightly be described as the most active and efficacious product of the plant, vastly more reliable than, and superior in effect to, any preparation made from the dried bark, which contains none of the volatile



The Witch Hazel Plant
(*Hamamelis virginica*).

active principles, but only a large percentage of extractive and colouring matters. "Hazeline" is water-like in appearance, with an aromatic, pleasantly-fragrant odour, and possesses a slightly astringent taste as well as well-marked anodyne and antiseptic properties. Being absolutely colourless (unlike the ordinary Witch Hazel products), it does not stain linen or other fabric with which it may come into contact.

In the whole range of modern remedies which have been taken up by members of the medical profession, and which have retained a lasting hold upon their confidence, few are so generally useful as "Hazeline." It has now permanently taken the place occupied for so long a period by that respectable but much over-rated preparation, Tincture of Arnica; and rightly so, for "Hazeline" possesses all the advantages of Arnica without any of its drawbacks, being, in fact, many times more useful, since it may fearlessly be used internally as well as externally.

The pain-subduing influence of "Hazeline" makes it of considerable service in painful affections, burns, contusions, sprains, abrasions, &c. It is a styptic of considerable power, and is used largely in hæmorrhage of all kinds. Indeed, it may be said that for internal bleeding few agents are so effective, not

only because it is generally successful in promptly arresting the flux of blood, but also because it may be given in large quantities without risk of the production of untoward or toxic consequences. In cases of bleeding from external wounds or cuts, whereas formerly Tincture of Iron or Tincture of Myrrh was always in request, "Hazeline" is now called for, because it has none of the objectionable characteristics of either of the old remedies, while it possesses the good and beneficent qualities of both, and is no less prompt in its astringent action.

The antiseptic properties of "Hazeline" are such as to enable it to be used, either diluted or undiluted, in the treatment of both healthy and unhealthy wounds, and, diluted with a little warm water, upon even so delicate an organ as the eye. Where the eyes have an offensive or unpleasant discharge, a few teaspoonfuls of "Hazeline" added to a teacupful of water at the temperature of the blood, act as a very soothing and cleansing lotion; or in cases of catarrh or inflammation, such as often supervene as the result of catching cold, a few applications of this lotion will give considerable ease and relief.

The soothing and anodyne effects of "Hazeline" are very practically shown when it is applied to tender surfaces after shaving. Occasionally the newly-bared surfaces will bleed in a very persistent way, but this may be checked at once by simply applying a little "Hazeline" on cotton-wool; it may also be used with great advantage to allay that feeling of irritation which shaving usually produces on sensitive skins.

"Hazeline" supplied to the Trade in 4-oz. and 1-lb. bottles at 14/- and 42/- per dozen.

BEEF AND IRON WINE.

In this preparation are contained the stimulant properties of Beef, together with a readily absorbed salt of Iron. Its value as a tonic and stimulant cannot be over-estimated, and by reason of its palatability, stability, and perfect assimilation it has for a long time been justly valued by the medical profession as a desirable addition to the range of nutrient stimulants. This preparation is specially valuable for its tonic and force-producing properties, its peculiar features being that it combines nutrient, tonic, and stimulant material in a palatable and concentrated form. In the majority of cases attended by failure of strength the chief cause is the inability to digest nourishing food; hence it is desirable to supply this necessity in a form acceptable to the stomach and at the same time to excite this organ to perform its functions. On the other hand wine, if taken alone, will often produce headache, excitement, and other symptoms, which are entirely avoided if given together with the nutrient properties of beef.

This preparation may be most comfortably borne by the most delicate or sensitive patient to whom other forms of oil are inadmissible. Each tablespoonful contains the essence of an ounce of beef with two grains of citrate of iron dissolved in good sound-bodied sherry.

Beef and Iron Wine supplied to the Trade in $\frac{1}{2}$ -lb. and 1-lb. bottles at 22/- and 42/- per dozen. Ditto, with Quinine, 27/- and 52/- per dozen.

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It is of the utmost consequence to a medical practitioner that the remedies he prescribes should, with regard to strength and constitution, be uniformly what they are represented; but it is a well-known and universally recognised fact that this requirement is not met in ordinary tinctures. It is only in very exceptional cases that the properties of spirit are desired by the prescriber, therefore there is no reason why it should be retained. We made this fact the basis of exhaustive experiments, and as the result of the expenditure of much time and trouble we succeeded in preparing "Tabloids" of Tinctures, containing all the active principles and all the therapeutic activity of the Tinctures themselves, but without the alcoholic body. "Tabloids" of Tinctures are very small, consequently very easy to swallow. Being prepared from freshly standardised tinctures, they are absolutely accurate in dosage, each "Tabloid" representing a given quantity of Tincture, and thereby doing away with the necessity for measurement. One of the most important characteristics of Tincture "Tabloids" (and, for the matter of that, of "Tabloids" generally) is their extreme portability, which offers to business people and to all who are continually moving about, such facilities for taking their prescribed doses with regularity as are obtained by no other method.



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Tr. Cannab. Indica, 5 min.
Tr. Capsici, 1 min.
Tr. Cinchonæ, 30 min.
Tr. Cinchonæ Co., 30 min.
Tr. Digitalis, 1 and 5 min.
Tr. Gelsem. Semp., 5 min.
Tr. Hyoscyami, 1 and 10 min.
Tr. Nucis Vomica, 1, 3, and 10 min.
Tr. Opil, 2, 5, and 10 min.
Tr. Strophanthi, 2 min.
Tr. "Warburg," 30 min.
Tr. Zingib. Fort., 5 min.

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"As representing the actual condition of pharmaceutical practice in the United Kingdom, the work has, however, long since far out-grown the latest edition of the Pharmacopœia, to which it was originally intended to serve as a companion, and, as containing a store of valuable information, it may now be regarded as in many respects anticipating the next issue of that authority. Few statements as to which any doubt existed have been adopted without careful examination."—*Pharmaceutical Journal*, June 16, 1894.

"It is considerably ahead of the average text-books, and affords a valuable standard of reference to those who are anxious to keep pace with pharmaceutical advances, the allusions relating in many instances to current literature bearing the date of the present year."—*Lancet*, March 24, 1894.

"The present edition has evidently been revised with the greatest care, of which evidences are to be found on almost every page. Altogether, the improvements are so great that many of those who already possess the work will find it worth while to have the new issue."—*Practitioner*, June, 1894.

"The contents extend far beyond the limits of the Pharmacopœia, as a very large number of unofficial drugs and preparations are considered with the same care and minuteness as the others."—*British Medical Journal*, June 16, 1894.

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SUMMER NUMBER.

THIS important number of THE CHEMIST AND DRUGGIST will be published on July 27. Circulars and price-lists will be received for insertion in it, and the publisher will be glad to furnish advertisers with all particulars as to size, &c., also to give any assistance in his power in regard to designing, printing, or selection of paper. To secure good positions orders should be placed with him as soon as possible.

"C. & D." BOOKS.

FOR those entering the trade we have the "Preliminary Examination Guide" (2s.), and for apprentices, assistants, and employers who want to know about British pharmacy laws another book published at 2s. 6d. All about the liability or non-liability of medicines for stamp-duty is told by Mr. Alpe (one of the Somerset House solicitor's staff) in his "Handy-book" (2s. 6d.). No dispensing-counter is complete without "The Art of Dispensing" (3s. 6d.), nor a stock right which has not been tested, as Mr. Procter tells how simply it can be done in his "Pharmaceutical Testing" (2s. 6d.); nor does any agricultural or horsey chemist worth his salt try to carry on his business without "Veterinary Counter-practice" (3s. 6d.). These are books which we publish, and copies of any of them will be sent for the prices mentioned, *plus* 3d. for postage, or 4d. additional in the case of the dispensing-book.

Summary.

THIS number is full of good things.

SOME useful veterinary formulæ are given on p. 799.

WE conclude our Conundrums Competition, and award a series of prizes (p. 807).

THE history of the "Liuk" shell truss has been related in the Bankruptcy Court (p. 792).

A SUBURBAN pharmacist moralises upon his lot, and concludes with an application (p. 808).

SOME straight remarks by a judge regarding a stramonium cigarette agency are reported on p. 793.

A SWEDISH chemist declares that iodine is a compound! Amusing details of his research are given on p. 801.

WE give notes of evidence given before the Adulteration of Food and Drugs Committee by Mr. J. C. Freston (p. 787).

THE whereabouts of Andrew W. Gray, formerly of the Scottish Drug Depot (Limited), are at present unknown (p. 793).

A NEW Friedrichshall water-spring has been found, the water of which is the same as that analysed by Liebig (p. 793).

FROM Dr. D. H. Atfield's journal we extract some interesting particulars regarding the arrest of cholera at the Suez Canal (p. 791).

THE Medical Council is to pay the Pharmaceutical Council well for doing the practical work of the B.P. revision (p. 804).

A MELBOURNE chemist relates his experience at the new gold-fields of Western Australia. He has returned to Melbourne (p. 809).

SOME particulars of the Formosa camphor industry, and the probable effect of the Japanese occupation of the island, are given in a note on p. 802.

THE paper on page 793 will interest chemists who think of turning a part of their premises into a branch post-office. One who has been at it tells how it is done.

THE Royal College of Veterinary Surgeons had an amusing annual meeting this week, and in the course of it the register was roundly condemned (p. 787).

SOMERSET HOUSE analysts have declared to be genuine a sample of ginger which Mr. Estcourt, of Manchester, certified to contain 25 per cent. of spent ginger (p. 793).

MR. W. A. H. NAYLOR discusses briefly the group of pharmacopœial syrups, and in view of the approaching revision makes some suggestions for improving certain of them (p. 805).

THE Society of Public Analysts had a paper communicated this week on adulterated sandal-wood oil. We print an abstract of it, and give illustrations of the plant used in distilling this oil (p. 795).

PROFESSOR T. R. FRASER, of Edinburgh, by the familiar immunity-process adopted for diphtheria-serum, has discovered a serum which is an antidote to snakebite. He starts with the venom (p. 788).

OUR correspondence columns are lively this week, anti-cutting, Edinburgh and London examiners, pin-hole photography, and other subjects giving good opportunities for letter-writers; while numerous dispensing, legal, and other queries are replied to (p. 813).

AT the meeting of the Pharmaceutical Council on Wednesday Mr. Michael Carteighe was re-elected President and Mr. John Harrison was elected Vice-President. A committee was appointed to inquire into the working of the Research Laboratory (p. 790).

THE General Medical Council have reached the end of their business (p. 786), and on Thursday considered a report from the Pharmacopœia Committee, in which the appointment of referees in chemistry, botany, and therapeutics, and a medical secretary, were recommended, Professor Atfield continuing his duties as editor (pp. 800 and 804).



English News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Chemists at Cricket.

A chemists' cricket club has been formed at Wolverhampton, and at the inaugural meeting Mr. E. J. Gibson was elected president, Mr. Revitt captain, Mr. A. S. Price hon. treasurer, and Mr. Pattison hon. secretary.

Burgoine Burbidges' Cricket Club added another victory to their list last Saturday, when they met Messrs. May & Baker's team on the former's ground at Willesden. Burgoynes, winning the toss, put their opponents in, and dismissed them for 57. They then piled up 180 themselves for eight wickets. The chief scorers for the winners were:—Moxon 62, Newport 38, Revell 25, and Burghes 23.

Died through Morphia—But Hardly an Overdose.

An East Dulwich lady, Mrs. Martha Esther Enderwick (76), was under the treatment of Mr. Swindlehurst, L.S.A., for a tumour and dropsy, and on Saturday, May 25, he injected morphia into her arm, and she went off to sleep. As she did not regain consciousness, the lady's relatives sent for Mr. Swindlehurst, but he was out, so Mr. Parrott, M.R.C.S., L.R.C.P.E., was called in. Mrs. Enderwick, however, died, and at the inquest on Thursday, May 30, Mr. Parrott said when he saw her there was every appearance of an overdose of some narcotic poison. A Juryman: You say an overdose. What quantity of morphia had been injected, in your opinion? Witness: Did I say an overdose? I hardly meant that. Morphia is a very uncertain drug, and acts differently on persons. The immediate cause of death was coma, consequent upon a dose of morphia. The jury returned a verdict in accordance with this evidence.

An Overdose of Godfrey's Cordial.

An inquest was held by Mr. R. E. Clarke, at Shrewsbury, on May 31, regarding the death of an infant nineteen days old. The evidence showed that the mother purchased from Mr. Ison, chemist, some mixture, which proved to be Godfrey's cordial. There was a label on the bottle (stating that the dose was 8 drops), which she did not read, but understood that the dose was to be a teaspoonful. The grandmother gave the child a small teaspoonful, and two and a half hours after he died from opium-poisoning. Dr. Gabb gave evidence to that effect, adding that a teaspoonful of the cordial—an old proprietary medicine the licence of which had expired—was decidedly too much for a child of the age of the deceased. He had known half a teaspoonful kill a child, and he thought the mixture should be labelled "Poison."

The Government Laboratories.

According to the *Manchester Guardian*, it is proposed to amalgamate the Government laboratories at Somerset House and Thames Street, but it is not very well known how it is to be carried out. A new laboratory is almost essential, but the expense and the locality are the difficulties to be got over.

The Army and Navy Stores Extending.

The Army and Navy Stores intimate that they have made special arrangements which will enable them to supply veterinary medicines at greatly reduced prices; also that the analysis of water to determine its suitability for drinking purposes is undertaken at a charge of 1 guinea.

Prussic-acid Poisoning.

At an inquest at Birmingham, on Thursday, May 30, respecting the death of Walter Sellers West (29), Mr. John Wakefield, pharmaceutical chemist, 1 Easy Row, said that on the previous afternoon deceased, who had been a custo-

mer for many years, asked for some prussic acid. Witness laughingly remarked, "You are not going to kill yourself?" and deceased replied, "Certainly not," and added that he wanted the prussic acid to poison a cat. Deceased was supplied with a 1-oz. bottle of the acid. Shortly after 5 o'clock he was found dead in an outhouse at his mother's house. He had taken the acid.

Carbolic-acid Poisonings.

Frederick Yates, aged 28, a farmer, committed suicide at Ormskirk, on Thursday, May 30, by drinking carbolic acid.

James Cadman (35), who lived at Gorton, took carbolic acid in mistake for cough-mixture, and died on Saturday last.

Frank T. S. Keeley (33) died at Nottingham Hospital on May 4 from carbolic-acid poisoning. He had been depressed since the death of his mother in April last.

A Portsmouth servant, named Cooper, was on Saturday found dead in her bedroom, laid out ready to be placed in a coffin, with her hands folded and her face tied up. On a table was a bottle containing carbolic acid, and by the side of the bed were letters indicating that she had taken the poison.

A young man, named Littlewood, of Oldham, who had had some difference with his sweetheart, intercepted her and a companion on Tuesday on their way to business. The lady declined to speak to him when addressed, and he shortly afterwards swallowed a quantity of carbolic acid, and died while he was being carried to the infirmary.

A Students' Outing.

On Thursday, May 30, more than a score of students from the North of England School of Pharmacy, Newcastle, accompanied by Mr. G. F. Merson, the principal, made a botanical excursion to Morpeth. Mr. F. E. Schofield, ex-Mayor of Morpeth, who had made arrangements for the students to visit several places of interest in the neighbourhood, met the party. The Chapel Woods were explored; then, after lunch, Newminster Abbey ruins, Mitford Castle, Mitford Hall, and the greenhouses at Spital Hill were visited, and, after tea, Mr. Edward Hopper's unique collection of orchids; the party returning to Newcastle, after a splendid day's outing, at 9 p.m.

Assaults of and by Chemists.

William Flynn, chemist and druggist, Botchergate, Carlisle, was on May 31 fined 40s. and 20s. costs for assaulting his wife. A separation order was also granted, defendant being ordered to pay his wife 10s. a week.

At Accrington Police-court, on Thursday of last week, Mr. John Law, chemist and druggist, summoned Wright Saxon for assault. The assault occurred on golf-links. A fine of 2s. 6d. and costs was imposed.

An Old Dupper.

Mr. C. A. Smith, chemist and druggist, Ventnor, has on view in his window a huge dupper, which was used for importing castor oil from India some 300 years ago. It holds about 8 gallons.

A Wholesale Druggists' Fire.

Shortly after 8 o'clock on Saturday last the premises of Messrs. Hodgkinson, Prestons & King, wholesale druggists, Bishopsgate, E.C., were discovered to be on fire. A telephone message quickly brought the fire-brigade upon the scene, but when the first engine arrived a portion of the warehouse was blazing fiercely. By 9.15 the fire was well under control, and the outbreak was confined to the two-storeyed building at the rear of the premises in which it originated. That building, however, was for the greater part destroyed. It was used chiefly as a storehouse for original packages of crude drugs, and the damage to the goods contained in it is estimated at about 5,000l., which is covered by insurance. This is exclusive of the damage done to the building itself.

General Medical Council.

The Council did not reach the Pharmacopœia Committee's report until Thursday afternoon, a large amount of time having been spent in considering the Midwives Registration Bill. The Pharmacopœia Committee held several meetings, and have decided upon some important developments in the compilation

of the Pharmacopœia which are calculated to satisfy both medical and pharmaceutical critics. (See pp. 800 and 804.) The Council have adopted the following recommendation of the Education Committee:—

The registration of dental students shall be carried on at the General Council office in London in the same manner as the existing registration of medical students—as hereinbefore set forth—and subject to the same regulations as regards preliminary examinations, but in the case of dental students professional study may commence by pupilage with a registered dental practitioner.

The Council have also decided to remove the name of Samuel F. Murphy, L.R.C.S.I., from the medical register for covering Thomas Millerchip, 4 Swanswell Place, Coventry; and the name of John Eustace Denuan, registered dentist, 49 Talbot Road, Bayswater, London, W., from the dentists' register. The latter is now under penal servitude for false pretences.

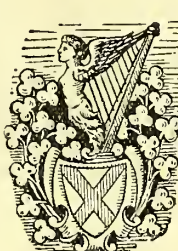
Vets are Amusing.

At the annual meeting of the Royal College of Veterinary Surgeons, held on Wednesday at Red Lion Square, Mr. Ward, one of the speakers, characterised the V. S. Register as an untrustworthy production reflecting discredit on those who had issued it. It was the only legal evidence of a man's right to call himself a member of the College, and yet in its pages there was a record of the decease of members still alive. Quebec was said to be in South America, and Whitechapel was credited with being a portion of Kennington. Even the President had admitted that the Register contained 500 mistakes—not printers' errors. Mr. R. Rutherford, one of the examiners, deprecated the constant alterations in the system of marking the papers of students. The terms "good" and "bad" were, he contended, better than any system of marking by numbers. He further took exception to the term "unprofessional advertising" in connection with a statement in the annual report that there had been thirty-three complaints during the year. In his view, all advertising was unprofessional. There were a large number of unemployed literary men in London, and he suggested that one might be called in to revise the new Register, even if only to make it grammatical, and to "sub-edit" the rules, so as to reduce them by one-half. Professor MacQueen and others having made complaints, the President (Mr. W. Hunting), in reply, agreed that the Register ought to be complete. He was only too sorry the members of the profession would not permit this much-desired state of correctness. Many members only reported themselves when they were scheduled as dead; and sometimes when a man was stated to have passed away, and was knocked off the list, he wrote an abusive letter six months later to say he was still living. No twopence had been spent in prosecuting registered shoeing-smiths, but in the year fifteen complaints had been received of persons using the words "veterinary shoeing-forge," and only one out of the number was found to be a registered shoeing-smith. The Council had been asked what sort of an examination was made in respect to farriers, but the query might just as well be put as to whether the men had light hair or blue eyes. The Council had nothing to do with the examinations. He defended the system of marking, but pointed out that they could not always guarantee common-sense to the examiners. As to ambiguity of the phrase "unprofessional advertising," the Council was much too wise to try to get everything clearly defined.

The Adulteration of Drugs.

We reported on May 25 the evidence given before the Select Committee of the House of Commons on the Sale of Food and Drugs Act by Mr. Charles Umney on May 22. Evidence was also given before the same Committee by Mr. Joseph Claxson Preston, but our reporter did not at the time take a note of it. It was to the following effect:—1. That drugs are not often adulterated, but that slight impurities and often differences in strength may exist arising from the processes of manufacture, collection, storage, &c. 2. That these impurities are rarely of a nature to be to the detriment of the purchaser. 3. That the inspectors often lay traps for the trader by asking for goods by their popular names and then prosecuting under the Pharmacopœia name. 4. That an invoice as between wholesale and retail traders should not be taken as a warranty after a certain length of time or the opening of the package. 5. That a Board of Reference

should be appointed to fix standards, and in questions of analysis to decide whether a fair margin of deviation from such standard has been exceeded. 6. That such Board of Reference might fairly be composed of nominees of the following bodies:—Inland Revenue authorities, Medical Council of Great Britain and Ireland, the Institute of Chemistry, Pharmaceutical Society of Great Britain, and the Drug and Chemical Section of the London Chamber of Commerce. 7. That owing to the highly technical nature of the drug-trade, and that in view of the present interpretation of the Act a minute impurity renders a trader liable to prosecution, it is advisable that drugs should be separated from foods and dealt with under a section by themselves.



Irish News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Business Changes.

Mr. J. Hughes, L.P.S.I., formerly manager of Dr. O'Sullivan's Medical Hall, William Street, Limerick, has purchased Messrs. Pease & Co's Medical Hall, George Street, Limerick.

Atkinson's pharmacy, Harcourt Road, Dublin, has been purchased by private treaty by Mrs. Barnes, stationer, whose premises adjoin. The future conduct of the business is not known, but it is at present under the management of Mr. Cochrane, registered druggist.

The Rising Branch.

Messrs. John Blair & Son, chemists, Patrick Street, Cork, have opened a new department devoted exclusively to the sale of photographic goods and chemicals. A "dark-room" in connection has also been fitted up.

May Walk all over Dublin.

Mr. H. T. Grindley (of Messrs. Grindley, pharmacists, Westland Row, Dublin) has received the freedom of the city of Dublin.

Oil or Money.

A sequel to the recent advance in the price of oil and the effect on contractors was heard last week at the Recorder's Court, Belfast. A local druggist and oil-merchant processed the Anglo-American Oil Company to recover 50% loss occasioned in consequence of the defendants' refusal to supply 4,500 gallons of oil previously contracted for. Evidence showed that some of the consignment was delivered to the plaintiff, and his Honour gave a decree for 10% 5s. 3d. loss on the quantity unsupplied.

Irish Pharmacists as Dispensers to Public Bodies.

In the House of Commons on Friday, May 31, Mr. Timothy Healy had on the paper notice of his intention to ask the President of the Local Government Board whether he was yet in a position to state whether members of the Pharmaceutical Society of Ireland were equally eligible as dispensers to infirmaries, asylums, hospitals, unions, &c., in England, under the control of the Local Government Board, as members of the Pharmaceutical Society of Great Britain. When called on, however, Mr. Healy announced that he wished to postpone the question, and it was accordingly deferred.

Irish Workhouse Infirmaries.

At the meeting of the Irish Medical Association held in the College of Surgeons, Dublin, on Monday, June 3—the President, Sir William Stokes, in the chair—a report was submitted from the Council of the Society which referred, amongst other matters, to the subject of the condition of Irish workhouse infirmaries. Dr. Ninian Falkner moved a

resolution to the effect that the condition of those infirmaries—according to a report which had been submitted to the Council by Dr. Moorhead, of Cootehill—called for earnest attention and speedy reform. Dr. Moorhead seconded the resolution, and remarked that the position of the Irish workhouse medical officer was peculiar. He had neither authority nor responsibility in his own hospital. No doubt he assumed authority at times, but if he did it was *ultra vires*, and he was liable to be pulled up for it at any time. He was bound to report to the Guardians defects of diet, drainage, ventilation, overcrowding, &c., but when he did so he was generally abused in a scurrilous manner. If he wanted peace and quietness, his best course was to go round at 12 o'clock, make up a few bottles of medicine, make no reports, and ask for nothing; and if he did not attend to the sick it did not much matter. Dr. Falkiner said that in England a short time ago a Commission was appointed to inquire into the condition of the poor-law infirmaries of that country, and very few of them had been found fit to stand the light. The President said it should be remembered that the defects in question did not exist in all the Irish workhouse infirmaries. Dr. Falkiner's resolution was amended so as to refer to "many" Irish workhouse infirmaries, and was passed *nem. con.* The concluding part of the resolution requested the Council of the Society to call the attention of the Irish Local Government Board to the subject.

Drug-tenders.

At a meeting of the Board of Guardians at Enniscorthy, Dr. Furlong, on behalf of the medical committee who had examined the tenders, said they had four tenders before them—one from the old contractor, Mr. Cooke; a second from Boileau & Boyd (Dublin); a third from the Apothecaries' Hall (Dublin); and a fourth from Messrs. Harrington & Sons (Cork). They found that the Apothecaries' Hall had been tendering on a system which anyone who wished to find it out could easily discover by quoting for drugs prices varying from the standard price to one-third of it. They had unanimously declined to prescribe medicines supplied on a tender like that, and had accordingly put it aside. The other three tenders were very even, but in a great many of the items the old contractor, Mr. Cooke, was the lowest. There was a close contest between Mr. Cooke and Messrs. Harrington, but ultimately the former got the contract.



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Early Closing in Aberdeen.

Last week the Aberdeen and North of Scotland Society of Chemists and Druggists decided to petition in favour of Sir John Lubbock's Shop Early-closing Bill, with the amendment of two clauses—first, that the local authority shall make an order giving effect to the application of two-thirds of any class of traders; second, that a pharmaceutical chemist, or chemist and druggist, shall not be liable to any fine under this Act for supplying medicines, drugs, or medical appliances after the hours appointed by the order made under the Act for closing of shops if the same are ordered by a qualified medical practitioner. The secretary was instructed to send copies of the resolution to Sir John Lubbock, Mr. Bryce, and Mr. Hunter. [The Bill as it stands provides for these requirements.—ED.]

Aberdeen Chemists' Picnic.

The Aberdeen and North of Scotland Society of Chemists and Druggists have made arrangements to hold their annual picnic in Buchan, and they hope to be joined by the

members of the Buchan Association. The programme, so far as arranged, is rail to Mintlaw, where conveyances will be waiting to convey the party through the grounds of Pitfour, then across the country to "Bullers of Buchan," a pot in the sea a little to the north of Slains Castle, which can only be entered through a natural tunnel at low tide by means of a boat. Ancient history says the natives must walk round this pot either dead or alive, so we presume the pill-rollers are to attempt it in life. After spending an hour at this foolish "prank" the company will drive into Peterhead and dine in the Royal Hotel, returning to the Granite City by the evening train.

One Step Farther.

A deputation consisting of Messrs. John Wallace and R. Salmond, aerated-water manufacturers, along with Mr. W. M. Sellar, solicitor, waited on the Right Hon James Bryce, M.P. for South Aberdeen, in the Grand Hotel on June 4, for the purpose of laying before him the recent report of the Public Health Committee of the Aberdeen Town Council regarding the Public Analyst's analyses of aerated waters. The deputation placed the whole facts before Mr. Bryce, and he undertook to lay them before the Secretary for Scotland.

An Antidote to Snake-poison.

At the meeting of the Royal Society of Edinburgh on Monday evening, Professor T. R. Fraser read a paper on the rendering of animals immune against the venom of serpents, and on the antidotal properties of the blood-serum of the immunised animals. Professor Fraser's experiments have extended over six years, and have been conducted with the venom of the most deadly snakes of Asia, Australia, America, and Africa, especially the Indian cobra. The animals employed were guinea-pigs, rabbits, white rats, cats, and a horse. After ascertaining the minimum lethal dose of venom, attempts were made to render the animals proof against the lethal dose, by administering a succession of gradual non-lethal doses, with the result that in the course of time rabbits had withstood fifty times the minimum lethal dose without manifesting any obvious symptoms of poisoning. The blood-serum of these immune animals he has found to be a protection against large lethal doses of venom. Professor Fraser is making further experiments with a view to ascertain the effect in man, and also to discover the constituents by which the antidotal effects are produced.

French News.

CHRONICLE OF FIRES.—A fire broke out last Sunday morning at the works of MM. Rigaud & Chapoteaut, manufacturers of pharmaceutical products, at Neuilly. The damages are estimated at about 400l.—Another more serious fire took place a few days ago on the premises occupied by MM. Quinet & Fils, wholesale dealers in essences, at 64 Rue Vieille du Temple, Paris. In this case the loss is estimated at nearly 2,000l.

A PROTEST.—The Pharmaceutical Society of Lyons has taken the initiative of protesting against a gratuitous advertisement recently given to the Mariani wine. It seems that the Association des Dames Françaises inquired some time since from General Duchesne what would be the most useful articles that could be sent for use by the soldiers engaged in the Madagascar campaign. The General replied in a letter addressed to the Countess Foucher, President of the Association, mentioning that Bordeaux wine, champagne, and Mariani wine would be the most useful for invalid soldiers. The pharmacists of Lyons consider that a regrettable precedent has thus been set. They say that if General Duchesne believes coca-wine to be a necessary part of the medicinal supplies of the expedition, he might have allowed the Dames Françaises to choose their own brand. The protest states that any pharmacien is quite as capable of making a good coca-wine as M. Mariani, but while no special brand of Bordeaux wine or champagne was suggested, this particular pharmaceutical product has been selected. Of course the Lyons pharmacists are helping M. Mariani to make the most of the advertisement which General Duchesne most likely inadvertently gave him.

M. PASTEUR AND GERMANY.—As a result of M. Pasteur having declined the decoration of the German order of merit offered to him, a committee has been formed to obtain subscriptions, with a view of presenting the popular French chemist an object of art in recognition of his patriotism. It appears that M. Pasteur received a communication a fortnight ago from the Berlin Academy of Sciences, mentioning the intention of that body to include his name in a list the German Emperor had asked to have prepared of the leading European scientists, on whom he wished to confer the decoration on the occasion of the Kiel fêtes. M. Pasteur's reply was to the effect that, while appreciating the honour, he must decline its acceptance, "as he cannot forget the war of 1870, and can never accept a German decoration." When the degree of Doctor of Medicine was conferred on M. Pasteur by the Bonn University, some twenty-five years ago, he declined it, "as a testimony of the indignation he felt at the massacre between two great nations." M. Pasteur, writing in regard to the national testimonial, says:—"I am exceedingly touched by the sentiments you have expressed, but beg you to leave a simple character to whatever action I may have taken. I want neither manifestation nor subscription." M. Puvion de Chavannes, a well-known artist, has addressed a letter to the organisers of the Pasteur Committee, in which he says that while the intellectual exchange of ideas is very necessary, patriotism should rise above everything, and on this account he heartily approves M. Pasteur's action.

Foreign and Colonial News.

PROPOSED TAX ON MICHIGAN DRUGGISTS.—A Bill has been defeated in the Michigan Legislature which proposed to tax druggists at the rate of \$500 a-piece.

WITH THE FISHES.—Six tons of advertising-matter for Hood's sarsaparilla were coming from the United States to London a few weeks ago. The freight-ship made the acquaintance of an iceberg, and the advertising-matter was amongst the things thrown overboard to lighten the vessel.

COTTONSEED OIL IN GERMANY.—The German Reichstag have recently passed a Bill increasing the import duty on cottonseed oil to 10m. per 100 kilos. The new rate, which will come into force on July 1, applies to refined oil. Unrefined oil will pay a much lower rate—viz., 3½m. per 100 kilos.

INTERNATIONAL TRADE-MARKS.—Owing to the loose laws now in force, especially in Central and South America, United States and English manufacturers have great difficulty in preserving their trade-marks there, and in consequence preliminary steps have been taken in U.S.A. to get an international system of trade-marks adopted.

THE BOSTON PHARMACY FAIR has been a failure, and was closed ten days before the time fixed originally, in order to avoid further loss. The secretary attributes the failure of the exhibition to the hostility of the wholesale druggists, but it is notable that crowds did not attend it, and that the fair was closed without notice.

A MIRACULOUS CHANGE.—A Rangoon correspondent of the *Civil and Military Gazette* states that one of her Majesty's honorary magistrates of Rangoon appeared before the Opium Commission, and solemnly advocated the immediate suppression of the noxious habit. Six months later he secured the opium farm (or monopoly) for selling opium in Rangoon; and this year he has again secured the retailing of the drug in the chief town of Burmah. He bids fair to become the greatest retailer of opium in the world, having this year also bought up the opium-farms of Moulmein, Prome, Thayetmyo, and Yandoon; and next year, it is said, he will extend his business still further.

PHENACETIN IN THE STATES.—The *Era* reports a development of the attempt to stop phenacetin-smuggling into the United States—viz., the arrest in New York of Mr. John T. Lyons, a retail druggist of Montreal, while on his way to that city. He is charged with smuggling phenacetin and other drugs from Europe into the United States by way of Canada, and the officers stated that they had been on the outlook for him for two years. Mr. Lyons was admitted to

baill in \$5,000. His store is at the corner of Craig and Bleury Streets, Montreal, and he has been in business for nine years. He is a graduate of the College of Montreal, a gold medallist, and was once Vice-President of the College. The arrest is said to be purely a United States Treasury matter.

ALEPPO DRUGS.—The British Consul of the Aleppo district reports that the export of olive oil, scammony-root, and sesame has fallen off, but the export of liquorice-root has increased in weight by 3,026 tons, and in value by 21,122l. To a great extent this represents root which was harvested during the year 1893, the shipment of which had been delayed owing to the crisis in the trade in the American market. The following figures show the more important raw products exported from Alexandretta during the years 1894 and 1893:—

	1894		1893	
	Quantity	Value	Quantity	Value
	Tons	£	Tons	£
Galls and yellow berries ..	657	32,975	656	31,289
Sesame, poppy, and castor-oil seeds ..	611	5,785	668	6,427
Pistachio-nuts ..	179	14,615	146	11,971
Olive oil ..	251	7,731	906	28,079
Opium ..	9	7,245	7	5,637
Scammony-root ..	76	1,900	83	2,075
Liquorice-root ..	8,034	55,232	5,008	35,170
Albumen and egg-yolk ..	142	7,100	53	2,666

Aleppo gum tragacanth is exported chiefly from the vilayet of Adana, and in 1894 133 tons were exported, 42 tons going to England and 91 to France. This is apart from 212 tons sent to Turkish ports. None of the sesame-seed from that district was exported to England; France took the bulk of it (1,080 tons), Austria coming next with 350 tons.

Federation of Local Pharmaceutical Associations.

THIS body is still alive, or, it would perhaps be more accurate to say, is still on the way towards becoming alive. The provisional Executive Committee, consisting of H. Kemp, President (Manchester Pharmaceutical Association), W. L. Currie, Vice-President (Glasgow and West of Scotland Pharmaceutical Association), Chas. Symes, Ph.D. (Liverpool Chemists' Association), Chas. A. Bolton (Nottingham and Notts Chemists' Association), Chas. Thompson, Hon. Secretary (Midland Pharmaceutical Association), have drafted a set of rules which it is proposed to bring before "the second annual meeting of the Federation, to be held at Bournemouth in July next," for approval. The objects of the Federation are stated to be—

To establish more intimate communication and co-operation between chemists generally, and local associations in particular.

To unite, advise and assist in the promotion of local combinations. Local pharmaceutical associations are entitled to be represented in it by delegates, one for every fifty members, on payment of an annual subscription of 10s. per delegate.

That the Executive Committee shall consist of a president, vice-president, secretary, and treasurer, and three others appointed at the annual meeting, four to form a quorum.

Delegates are to pay their own expenses when attending the meetings of the Federation, except in cases when special journeys have to be made, or when special services have been rendered, when a grant may be made by the Executive Committee.

The annual meetings are to be held in the same town and during the same week as the annual meetings of the British Pharmaceutical Conference.

Chemists residing in districts in which there is no established pharmaceutical association may become subscribing members of the Federation on payment of an annual subscription of 5s.

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

ON Wednesday the newly-elected Council met at 16 Bloomsbury Square, W.C., the only absentees being the Scotch members, Messrs Johnston and Storrar. The business was prosaic, almost lethargic, because commonplace; but there was an important consultation before the doors were opened, which was quite strictly private. Mr. Carteighe was not present at it, nor the Secretary; and the official reporters, who are generally in the room before the official hour of meeting, were requested to withdraw while the consultation proceeded. The result of it may be seen in the practically unanimous vote which placed Mr. Carteighe in the chair for the fourteenth time. We take it that the paper cast for Mr. Walter Hills was Mr. Carteighe's own—he never, or hardly ever, in pharmaceutical matters, votes blank. The hand-clapping which followed the stream of "Carteighes" that flowed from the Secretary's mouth was very hearty, general, and spontaneous; and if Mr. Carteighe knew what was coming he behaved quite as if he did not—indeed, after the few things he had had to say before this point a declinature would not have been surprising to the uninitiated. The election of Mr. John Harrison, of Sunderland, to the vice-chair was popular, and is a diplomatic move. Mr. Harrison is not a pharmaceutical chemist, but, with two others on the Council, represents the chemist and druggist element which is now predominant in the Society. His election should please that section. Moreover, he is a strong man, a ready speaker, and an experienced administrator. Mr. Hampson continues to hold the treasurership which, truth to tell, he may retain as long as he pleases, for he does the work well. Beyond these matters there was little at the meeting which calls for special reference. At the close, and in committee, the sanctity of which we hope we may be pardoned for violating Mr. Carteighe called attention to the resolution of the last Council in regard to the committee, and when our reporter withdrew it was understood that this matter would be arranged. [We have since received an official communication, which is appended to this report.] Graceful compliments were paid to Mr. Gowen Cross and Mr. Thomas Greenish for their services to the Society, and the principal permanent officers were reappointed.

The members present were:—Messrs. C. B. Allen, S. R. Atkins, Alex. Bottle, M. Carteighe, Octavins Corder, W. G. Cross, T. P. Gostling, N. M. Grose, R. Hampson, J. Harrison, Walter Hills, N. H. Martin, William Martindale, G. T. W. Newsholme, A. L. Savory, G. F. Schacht, Alfred Sonthall, William Warren, and J. Rymer Young, with Mr. Richard Bremridge, Secretary and Registrar.

Mr. CARTEIGHE, in taking the chair, said he did so according to custom, and, after the minutes were disposed of, the Council would proceed to the election of officers. Mr. Cross occupied the vice-chair. The other old members of the Council occupied their usual places. Mr. Corder sat between Mr. Martindale and Mr. Grose to the right of the President's chair, and Mr. Savory between Mr. Schacht and Mr. Young to the left.

Mr. Carteighe, having signed the minutes, remarked that sundry matters arising from them would come up later. Meanwhile he desired to welcome Mr. Corder and Mr. Savory to the Council-table, and he gracefully referred to the work of the former as an examiner, and the connection of the latter, through his grandfather and father, with the Society. The

ELECTION OF PRESIDENT

was then proceeded with in the usual manner, and the Secretary, having arranged the voting-papers, read out eighteen for Carteighe and one for Hills.

Mr. CARTEIGHE, in acknowledging the vote, said he did not quite know whether he should be glad at the result of the vote. But it was a great honour, and, as he thought he saw the spirit of the vote, he would take it in the same manner, and accept the office for the next twelve months. (Applause)

ELECTION OF VICE-PRESIDENT.

The voting resulted as follows:—

Harrison, 14; Cross, 2; Hampson, 1; Hills, 1;

with a blank paper. Mr. Harrison was declared elected, and Mr. Cross immediately shook hands with his successor, vacating the chair for him.

Mr. HARRISON said what had just taken place was one of the greatest surprises of his life. When he looked round the table and on the walls of the room and saw the men who had occupied the position before him—men more qualified than himself—he could only accept the honour with much deference. But he trusted that the same kindly spirit which put him in the chair would be extended to him during his occupation of it. He was glad to think that with such a giant of business and method in the presidential chair and to guide him he would be kept right, and he hoped he would do good service to the Society.

THE TREASURERSHIP.

Mr. HAMPSON was re-elected, one of the 19 papers [? his own] being crossed for Mr. Allen. Mr. Hampson, in acknowledging the vote, said he would take the same care of the funds as in the past, which remark brought forth a merry little laugh.

MR. CROSS IS THANKED.

Mr. WALTER HILLS then submitted a resolution thanking Mr. Cross for his services as Vice-President for three years. He said that Londoners who lived so close to Bloomsbury Square did not realise the amount of time their country friends gave to the work of the Society, and he spoke particularly of what Mr. Cross had done in this respect, although he had large demands upon his time for public affairs in Shrewsbury. He had done excellent work on the Council; he was a man of a large amount of common sense and *bonhomie*; he was loyal to the Society and to his colleagues, and he well deserved the thanks of the Council. (Hear, hear.)

Mr. CORDER seconded the motion, because no other member of the Council had sat under Mr. Cross so long as he had done as an examiner.

Mr. BOTTLE (filling a pause during which several showed a disposition to rise) said, "We would all like to support the motion," at which there was a round of applause.

And there was another when, in putting the motion, the PRESIDENT expressed his own feeling of affection and regard for Mr. Cross, who had done many things to relieve him.

Mr. CROSS, in reply, remarked that he was not ungrateful when he said that it was with a sense of relief that he had managed to get through the work of the office and leave it with so much good will. It was a high office, and to feel that he had occupied it was a sense of gratification to him. He had simply endeavoured to do good to the grand old Society for which they were all working, and he was pleased that they thought so well of him now.

DITTO FOR MR. GREENISH.

The TREASURER, in a short but graceful speech, submitted a motion of regret that failing health had compelled Mr. Thomas Greenish to retire from the Council after twenty-four years' service, thanking him for his services, and wishing him a renewal of health.

The PRESIDENT seconded the motion, so as, if possible, to give it more honour, and it was passed amidst applause.

VARIOUS MATTERS.

The standing orders were re-adopted.

Mr. H. N. B. Richardson, Leicester, thanked the Council, on behalf of his father, for the motion passed at last meeting,

The PRESIDENT made a statement (this looks more serious than it really was) regarding the Pharmacopœia Committee's report. Sir Richard Quain had asked him for statistics, which had been supplied.

It was agreed to write a letter of condolence to the relatives of Dr. Cleghorn, of St. Andrews, an honorary member of the Society. The PRESIDENT added that Dr. Cleghorn used occasionally to visit the North British Branch, and if it were not for the fact that he had lived the life of a country gentleman, he would have contributed to the Society's evening meetings.

Mr. Bremridge, Mr. Hill, Mr. Holmes, Dr. Paul, and Mr. Humphrey were reappointed to their offices.

Messrs. W. M. Holmes, A. E. Tanner, and Pinches were appointed to conduct the Jacob Bell scholarship examination.

Professor Percy Frankland, Mr. Ransom, and Mr. Seward were appointed to conduct the Council prizes examination.

A number of persons were elected or restored to the Society's roll. Mr. E. J. Lawson, of Holloway, and Mr. George Wilson, of Clapham, were restored to the register of chemists and druggists.

The standing committees of the Council were readjusted.

FINANCE.

The report showed that on the General Fund account there was on April 30 a balance of 1,091*l.*, and the receipts during May brought the amount up to 2,955*l.*, and after paying 1,781*l.*, a balance of 1,174*l.* to meet payments of 1,303*l.* now recommended.

The Benevolent Fund receipts for the month were 245*l.*, and 850*l.* remains in hand. The Donation and Orphan Fund accounts are as they were.

A payment of 30*l.* for the Hills orphan was authorised, and the report was adopted.

BENEVOLENCE.

Six applications for relief were considered, and five obtained grants—viz., one 15*l.*, two 10*l.*, and two 5*l.* The Secretary also got 10*l.* to relieve broken-down pharmaceutical wayfarers who call upon him for charity.

MISCELLANEOUS.

A fine crayon portrait of Daniel Hanbury, presented by his brother Thomas, was referred to in the Library, &c., Committee's report. The PRESIDENT said it was the most life-like portrait the Society had.

It was referred to the same committee to arrange for the inaugural sessional address.

The Scottish Executive propose to put the Assistant-secretary and the library on the drawing-room floor of the York Place house, reserving the ground floor entirely for the museum. This also will be considered.

A few trifles were disposed of, and the Council went into committee to consider research and legal business.

RESEARCH.

The annexed motion was adopted by the Council after our representative had left the Council-chamber, Mr. BOTTLE putting it, and Mr. SCHACHT seconding:—

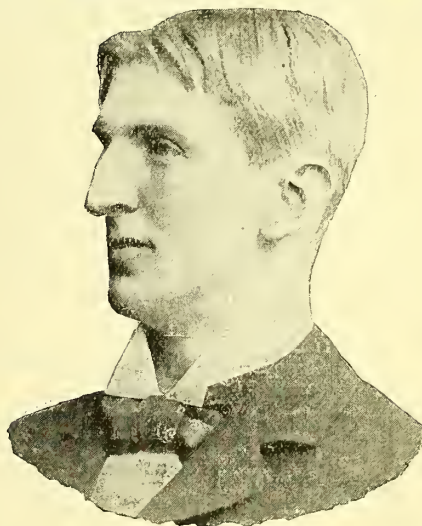
That a special committee of the Council be appointed (1) to inquire into and report to the July Council to what extent the objects aimed at in the equipment of the Research Laboratory have been attained; (2) to report any suggestions that may occur to them for the conduct of the Laboratory for the future.

The special committee consists of the President, Vice-President, Messrs. Allen, Atkins, Bottle, Gostling, Hampson, Hills, and Martindale.

THE PHARMACEUTICAL SOCIETY.—Whether or no it is because this Society has come into greater prominence of late in connection with the commendable activity it has exercised in repressing the indiscriminate sale of poisons and in watching over the conduct of practising pharmacists, there was an unusually large and influential company present at the annual dinner, held in the Whitehall Rooms of the Hôtel Métropole on May 21, and it must be a source of considerable satisfaction to the members of this important and evidently prosperous Society to find that they are vigorously supported by the leaders of all branches of science. Thus the *Lancet*.

How Cholera is kept from Europe.

LITTLE more than a year ago we mentioned that Professor Attfield's son, Dr. Donald Harvey Attfield, had been appointed one of the sanitary and quarantine medical officers under the Egyptian Government. During the intervening time Dr. Attfield has kept his friends at home well posted as to his doings by a brightly-written journal, which has now been printed for private circulation. This journal has brought home to us more assuredly than anything else we have read the importance of the work in which Dr. Attfield is engaged. Literally it is to keep cholera out of Europe. Although that dread disease originates in India, Persia, and other Eastern countries, the sacred cities of Mecca and Medina are its forcing-beds and distributing centres, for there are brought together Moslems from all parts of the world, who in returning to their homes carry with them the seeds of the disease. To check this an international agreement has been arrived at, under which Egypt, taking the initiative, has made arrangements, by establishing quarantine camps at Suez, Moses' Wells, and Tor, to sterilise the pilgrim stream from Medina and Mecca which filters through the Suez Canal on



the way to Algiers, Constantinople, &c., or *vice versa*. The duties of the medical officers are, substantially, to organise and control the quarantine camps and hospitals, arranging for food-supply, medical treatment, disinfection, sterilisation of clothing, and to examine every pilgrim. Thus, on the return from Mecca and Medina, every ship stops at Tor, the village sheltered by the shadow of Mount Sinai, and each pilgrim is examined by the medical officers, being drafted to the health camp or the hospital tents, according to condition. Three days is the minimum period of quarantine, and that suffices to allow any latent ailment to manifest itself. Those who are in the hospital divisions remain there until they are well. When, therefore, such news comes to us as that recently reported in the *Times*—viz., "The Turkish authorities having reported an outbreak of cholera at Mecca, fifteen days' quarantine at El Tor is imposed upon passengers and ships from the Hedjaz littoral"—we may assure ourselves that all that science can do to keep cholera out of Europe is being done. It is difficult to over-estimate the importance of this work, and Dr. Attfield's journal gives us a splendid reflection of the manner in which it is carried out, for he speaks often and enthusiastically of the Egyptian Sanitary Council and its officers. The opportunities for research which the post affords are apparently inexhaustible both in extent and variety. Bacteriology, chemistry, medicine, surgery, pharmacy, and the practical problems of keeping clean thousands of sanitary sinners are all involved in the work, and to these Dr. D. H. Attfield has brought excellent qualifications of head and heart. His journal shows him to possess many of the paternal characteristics, but it will be seen from the portrait that he has favoured the maternal side in the matter of looks.

Bankruptcy Reports.

Re GEORGE GABRIEL WOLFF, 105 Green Lanes, Clissold Park, and Acton Street, Haggerston, Manufacturing Chemist.

THE summary of accounts issued under this failure show unsecured debts, 1,535*l.*; a fully-secured creditor, 103*l.*, holding security valued at 500*l.*; assets, 9*s.* 6*d.*, consisting of stock-in-trade in laboratory, estimated to have cost 200*l.*; and a deficiency of 1,534*l.* 10*s.* 6*d.*

The debtor (regarding whose business career particulars were published in our last issue) attributes his insolvency to his liability to the petitioning creditor for his partner's debt.

The debtor has been required to file further and amended accounts, and to attend the court on June 11 for his public examination.

Re FERDINAND FANTA, Arundel Street, Strand, Engineer.

UNDER the failure of this debtor accounts have been issued from the London Bankruptcy Court showing total liabilities 5 886*l.* 17*s.* 8*d.* (unsecured, 2,101*l.* 5*s.* 2*d.*), and assets valued at 5,831*l.* 13*s.* 5*d.*, sufficient to provide a surplus of 3,714*l.* 15*s.* 9*d.* The debtor has devoted his operations and time to a patented process for the manufacture of oxygen, and in March, 1892, sold his interest in the process to the Oxygen Producing Syndicate (Limited). He acted as engineer and managing director of the company until December last, when the undertaking went into voluntary liquidation. The debtor attributes his failure to his pending inability to realise his assets, shares, and interests in the company, and more immediately to the action of the petitioning creditor. The Official Receiver reports that the assets are of an uncertain nature and value, the realisation thereof being largely or wholly contingent and dependent on future eventualities.

Re ALBERT HODGES, 171 Wardour Street, W., trading as The Link Shell Truss Company.

AT the London Bankruptcy Court, held on May 31, before Mr. Registrar Brougham, this bankrupt applied to pass his public examination upon accounts showing debts 1,139*l.* 9*s.* 7*d.*, and assets 15*l.*

In reply to Mr. Hough, Official Receiver, the bankrupt said he had been known as A. Link, and in that name had given orders for advertisements. Prior to February, 1888, he was in business as a truss-maker under the style of Hodges & Co., but no other person was jointly interested therein as a partner. From February, 1888, he was in retirement for a time, and the business of Hodges & Co. was discontinued. The assets were realised, and some of the debts were discharged, but witness was unable to give particulars. He did not authorise anyone to make an arrangement with the creditors, but he believed that some of the debts were paid from the proceeds of the assets. The business of Hodges & Co. was carried on first at 18 James Street, and subsequently at 327 Oxford Street. Witness recommenced business in March or April, 1894, at 171 Wardour Street, under the style of "The Link Shell Truss Company." At that time he had a capital of 250*l.*, of which 70*l.* was derived from the proceeds of the former business and the balance was given to him by relatives. He took no steps to pay off the outstanding debts (if any) of the former business. There were two or three assistants in the business of the Link Shell Truss Company. Two of those assistants—named Smelley and Reynolds—were authorised to sign orders for advertisements, but they had no interest in the business. The present liabilities were almost entirely in respect of advertisements and posting.

The Official Receiver: Had not Smelley been associated with you in the past?

The bankrupt said he did not understand the question.

Mr. Hough: Were not Smelley's circumstances between 1833 and 1894 similar to your own circumstances?

The bankrupt fenced with the question, and drew from the Official Receiver the further question, "Between 1838 and

1894 your life was not the ordinary life of a free man, was it?"—No.

Were you not both convicted and sentenced for obtaining goods by false pretences?—Yes.

Examination continued: The Wardour Street premises were taken by witness in the name of Hodges. No references were required by the creditors before the advertisements were inserted, but before the electric light was installed the name of the landlord was given by witness as a reference. The "Link Shell" truss was invented by witness, who had lodged the usual specification and applied for a patent, but none had yet been granted. He had never been advised by an expert as to the validity of the patent. In some cases he was canvassed for the advertisements, but in others he went to the newspaper offices and ordered the insertion.

The Official Receiver: You are, no doubt, aware that commissions are allowed to canvassers for advertisements obtained by them?—Yes.

Is it the fact that in some cases it was arranged that you should receive the commission?—No.

Have you ever borrowed money from canvassers?—No. It is my experience that the canvassers try to borrow from the advertiser. (Laughter.)

Examination continued: The result of the trading was that witness lost money, and in November last, when pressed for the payment of certain advertisements, he realised that he was insolvent.

The Official Receiver: Have you ever paid anything for advertising your business?—Yes.

Have you paid one single penny to any of your present creditors?—Yes.

Examination continued: Since he commenced business he had paid 200*l.* for advertisements. All the books of account had been handed to the Official Receiver, and the whole of his property had been disclosed. He attributed the failure to the expenses of advertising the truss, and to the fact that he was obliged to stop before any benefit therefrom could be derived.

The Official Receiver: How many of the trusses did you sell?—I really cannot say.

Will you swear that you have sold 50?—Yes, certainly.

Have you sold 100?—I really cannot say the number without going through the books.

At what price did you retail them?—Oh, different prices.

According to the position of the customer or the worth of the article?—Both. (Laughter.)

Examination continued: There were no trusses stocked at the present time. Since the receiving order was made witness had been assisting in the realisation of the stock, and had been in receipt of the letters addressed to the Link Shell Truss Company. The premises were held on a weekly tenancy, but the landlord had refused to accept him as a tenant.

The Official Receiver: Who is Dr. Link?—I am, sir.

Is it purely an honorary title?—Yes, sir.

Had you any medical training or education?—No, sir.

And before you commenced business on your own account, you were merely a workman, were you not?—Well, I commenced business on my own account some twenty years ago.

But you never styled yourself "Dr." Link until recently, did you?—I only did so recently by advertising.

There was no opposition on the part of the creditors, and the examination was ordered to be concluded.

Re JOHN HENRY SPENCE, 44 Camberwell Road, and 27 St. Ann's Road, Brixton, Feeding-bottle Shield Manufacturer.

AT the London Bankruptcy Court, on May 31, the first meeting of creditors under this failure was held before Mr. A. H. Wildy, Official Receiver. The debtor describes himself as a chemist's and oilman's sundriesman, carrying on business at 44 Camberwell Road. He started as a coal-merchant in 1880, without capital. For nine years he traded in a small way, and in 1889 he gave up that business and commenced his present one. He then patented an improved feeding-bottle shield. Further, in conjunction with a Mr. Reed, he started, seven years ago, at Portland Street, Walworth, the "Spence and Reed Loan Office," the capital (300*l.*) being provided by Mr. Reed, who retired two years later, taking out his 300*l.*

The debtor carried on the business alone, but eventually sold it to a clerk. At a private meeting of the creditors, when a statement showing liabilities 1,200*l.* and assets 50*l.* was presented, an offer of a composition of 5*s.* in the pound was accepted by all except the debtor's brother-in-law, who subsequently filed the petition. The business of this meeting was to elect a trustee and committee of inspection, but after some discussion it was decided to adjourn the meeting for a fortnight. The public examination of the debtor is set down for hearing on June 18.

Legal Reports.

In re BIDWELL SHARES.

IN the Court of Session, Edinburgh, last week, James Bidwell and Arthur Bidwell, the sole late partners of the now dissolved firm of Bidwell Brothers, manufacturers, Axminster, Devon, sued Andrew William Gray, sometime manager of the Scottish Drug Depot (Limited), Edinburgh, but whose present address is unknown, for payment of 62*l.* 10*s.*, said to be due under acceptances granted by the defender to the pursuers for advances by them to him to meet shares which he took in their business when it was turned into a limited company. The pursuers had had business relations with the defender on behalf of the Scottish Drug Depot (Limited), of which he was manager. The defender said he did not owe the sum; but, his counsel stating the defences were not insisted in, Lord Moncreiff entered a verdict against the defender, with expenses.

ANALYSTS ON GINGER.

THE ginger case which was referred by the Lancaster Magistrates to Somerset House came again before the Lancaster Court on May 30. At the previous hearing the certificate of Mr. Estcourt, of Manchester, the borough analyst, was put in. It stated that the sample was adulterated to the extent of 25 per cent with spent ginger. The grinders of the ginger, Messrs. Wright, Crossley & Co., of Liverpool, took up the case, and submitted a portion of the sample retained by Mr. Towers (the defendant) to Dr. Campbell Brown and Dr. Collingwood Williams, of Liverpool, who certified that it was pure high-class ginger. Dr. Brown added, "No one who knows anything about ginger can contend that the samples are other than high-class ginger." The Somerset House analysts, Messrs. R. Bannister and J. Holmes, now certified that in their opinion the sample consisted of genuine ground ginger. Mr. Kyrke Smith (senior partner in Wright, Crossley & Co.) said the Chief Constable had treated them with great courtesy throughout the proceedings. The case was dismissed, and an application for costs was withdrawn.

SOLE AGENCY.

AT the Carnarvon Assizes on Tuesday last, before Mr Justice Lawrence, Walter Snell was indicted on the charge of obtaining the sum of 27*s.* from Mrs Williams, at Bangor, by means of false pretences. It appeared that the money was paid to the defendant on the representation that plaintiff was to be appointed sole agent for the sale of stramonium cigarettes in the town of Bangor. After the prosecutrix had given evidence, his Lordship stopped the case, and said that although no doubt it was a gross case of fraud, the prisoner could not be convicted, owing to a point of law, which his Lordship said he need not explain to the jury. His Lordship, addressing prisoner, said that from what he could see this was not the first case of fraud alleged against him; but, unfortunately, on that occasion there was no case against him, therefore he could go. His Lordship then directed the jury to return a verdict of not guilty against the prisoner, as there was a point of law in the case which would not carry conviction.

HALF a million tons of chemical manures are used in the world every month of the year. The United Kingdom alone uses 1,100,000 tons annually.

Deed of Arrangement.

Hayward, John, 66 Surrey Street, and 13 Norfolk Lane, Sheffield, and 4 Quoit Green, Dronfield, surgical-instrument maker. Trustee, George Gibson, St. James' Row, Sheffield, accountant. Dated, May 24; filed, May 29. Secured creditors, 5*l.* 14*s.*; liabilities unsecured, 320*l.* 17*s.* 9*d.*; estimated net assets, 74*l.* 6*s.* The following are scheduled as creditors:—

	£	s.	d.
Martin Wallach, Nachfolger, Cassel	14	0	0
National Telephone Company (Limited), Sheffield ..	20	0	0
Rotherham, the Misses, Dronfield	216	0	0

Gazette.

PARTNERSHIPS DISSOLVED.

Atkins, S. R., and Atkins, W. R., under the style of Atkins & Son, Salisbury, pharmaceutical chemist.
Black, J. W., and Short, G. D., under the style of J. W. Winton & Co., George Street Richmond, and Westow Hill, Upper Norwood, S.W., chemists and druggists.
Fellows, J. H., and Tate, J., under the style of Fellows & Tate, Loddles, near Birmingham, mineral-water manufacturers.
Schofield, T. and J. W., and S., Dalrymple Street, Liverpool, mineral-water manufacturers; and as provision dealers, Boltou-le-Moors.
Whitling & Kirkham, Downham Market, Norfolk, surgeons.

THE BANKRUPTCY ACTS, 1883 AND 1890.

ADJUDICATION.

Lamont, Daniel, Newcastle-on-Tyne, medical electrician.

Friedrichshall Water.

A NEW SPRING has been opened at Friedrichshall. The old spring, which has been continuously worked for upwards of fifty years, and was referred to by Baron Liébig as "a treasure of Nature," has of late given indications that the combination of saline deposits which gave it its value was becoming exhausted. Geologists were of opinion that this was simply due to the dissolving-action of the water upon that portion of the vein of deposits which fed the spring, and that the same vein could as easily be struck and worked by another shaft. Borings were accordingly made, and a new spring found, with the satisfactory result that the water drawn therefrom proves to be practically identical with that originally yielded by the old Friedrichshall spring. An analysis of the water from the new spring, by Dr. B. Fischer, of Breslau, compared with one made by Liebig in 1846, shows that the two waters are practically identical. We give the two averages below:—

	Parts in 1,000	
	Fischer, 1894	Liebig, 1846
Sulphate of soda	5.9461	6.4560
" magnesia	5.9624	5.1502
" lime	3.7408	1.3495
" potash	0.1707	0.1982
Chloride of sodium	7.3112	7.9509
" magnesia	4.7135	3.9390
Bromide of magnesia	0.0072	0.1140
Carbonate of soda	3.3168	0.0000
" magnesia	0.0113	0.5198
" lime	0.2193	0.0147
Carbonic acid	0.2338	0.4020
Silicic acid	0.0012	Traces
Oxide of iron	Traces	Traces
Alumina	Traces	Traces
Total	25.6443	25.6955

The medicinal value of the Friedrichshall water is due to the combination of the sulphates and chlorides of sodium and magnesium.

Trade Notes and Novelties.

MESSE^S. BOURNE, JOHNSON & LATIMER have brought out a 6d. court-plaster enclosed in a new and very attractive celluloid case.

MESSE^S. NICHOLLS & PASSERON, of Nice and Monte Carlo, have been appointed chemists to the Queen by Royal Warrant, dated May 28.

MESSE^S. STEVENSON & HOWELL have just issued a new price-list of chemicals, essential oils, flavouring-essences, &c., suitable for makers of aerated waters.

MR. G. C. KIRTLEY, of Newcastle-on-Tyne, has brought out a series of well-made parcel-post boxes for bottles, &c. They are solid, and seem cheap. Mr. Kirtley also supplies them in coloured leatherette paper covers.

MESSE^S. IDRIS & CO. (LIMITED) have offered a certain number of shares in their company to chemists and customers. Applications for these, we are informed, have been largely in excess of the number at the directors' disposal.

THE Chemists' Aerated and Mineral Waters Association (Limited) have called an extraordinary meeting of the shareholders to consider the advisability of altering the articles of association of the company by taking power to subdivide its shares, with the view of subdividing the 4,500 shares of 10% each into 45,000 shares of 1% each.

MESSE^S. BRUMMERSTADT & LUDERS, referring to the statement in our issue of May 18 that they had been appointed agents for the Actiengesellschaft für Chemische Industrie at Mannheim, inform us that their negotiations with that company were never completed, and have now been definitely broken off. The circular which was issued, and on the strength of which we made our statement, is, therefore, cancelled.

MR. J. W. RUSSELL, Morgan Tower Pharmacy, Dundee, has been appointed sole consignee for the United Kingdom for Dr. Pisen's calf lymph, and he is desirous of securing agents to co-operate with him in making it better known to medical men. The lymph is prepared under the supervision of the Imperial Health Office of Berlin, and has been adopted by the Sanitary Department of the city of Glasgow and other public institutions.

MESSE^S. WILLIAM EDWARDS & SON, of 157 Queen Victoria Street, E.C., have taken the sole wholesale agency for a packet-tea which, under the name of "Digena," is to be sold by chemists exclusively. It is, principally, a black China tea; and the late Sir Andrew Clark recommended that particular kind as the wholesomest and most refreshing. It will be found a convenience that it is sold at only one price—namely, 1s. 10d. per lb. Our tea expert states that he finds the tea quite pure, and very free from the astringency which indicates excessive tannin, and it is, therefore, probably as digestible as any tea can be. It consists (he says) principally of China, congou but with an admixture of Ceylon, Java, or Indian tea, to give it the strength which China tea lacks.

MESSE^S. STEPHEN SMITH & CO., Malmesbury Road, Bow E., are this week offering 119l. in prizes for the most effective window-show of Hall's coca-wine. The show should be made during the first fortnight of August, and a photograph of the window is to be sent to the firm before the end of August. We observe that no prize will be given where the wine is sold below 3s. for the 3s. 6d. size, and 1s. 9d. for the 2s. size. As some may think this is merely a plan to get chemists to buy a large stock of the wine, we may disabuse their minds of the idea, for Messrs. Smith & Co. offer to supply dummies and showcards free. The first prize will be 20l., and there will be forty at 2l. 2s. It is necessary that, each one competing should sign a copy of the conditions, and this may be obtained from the firm.

FLEMING'S OIL AND CHEMICAL COMPANY (LIMITED), of 101 Leadenhall Street, E.C., are going for moths with a determination which seems almost vindictive. They put up (1) 1s. tins of "crystallised camphylene" for sprinkling among clothes, carpets, furs, &c.; (2) alabastrine tablets (of camphylene), suitable for placing in rooms, cupboards, drawers, &c., similar to, but in more elegant style than, the camphylene blocks which the same firm supply as disinfect-

ants for urinals, &c.; and (3) in the very convenient form of porous cardboard sheets, which can be placed between the folds of any article of apparel. All these articles are very effective for the purpose for which they are intended, and they are put up in a very saleable form.

STICKY FLY-PAPERS.—Our note of last week on "Summer Trade" has brought us two comments from makers of fly-papers. Mr. Christy Strong, of Reading, says that "the cause of drying at the edges, and the paper tearing of folded papers, is due to the gum being thinner at these points. In my papers the gum is protected from oxidation and gathering to one spot by an hermetically-sealed border, thus allowing the gum to spread itself uniformly, and to open readily even if kept until the next season, as testified by many of my customers." Mr. Strong's papers are the "Grip" and the "Cobweb," the latter having no name upon them, but an alluring cobweb in blue ink. These papers are machine-spread, they are beautifully clean, and the "Grip" has directions upon it in seven languages, so that it is as well suited for export as for consumption by the British fly. The halfpenny size is worth attention.—Mr. David D. Buchan, of Frickheim, informs us that the edges of his fly-paper are hard and stick closer than a brother; but this is intended, as the edges are glued together to prevent leakage, this portion being cut off and the rest separated. We felt a little doubtful about the separation when the edges were cut off, but we have tried it, and found no difficulty. The "Enticer" is perfumed with odours which Mr. Buchan has experimentally proved to be loved by the buzzing tribe. Mr. Buchan puts up the "Enticer" gum in 2d. tins for retailing. We have no doubt that either of these manufacturers will be glad to send quotations and samples to buyers.

Personalities.

MR. GEORGE T. FULFORD, the proprietor of Dr. Williams's Pink Pills, sailed on Wednesday for New York. He is to spend the summer in Canada. Mr. Fulford has resided in Paris during the spring, having introduced his speciality there with good hope of ultimate success.

A FEW weeks ago we asked if anybody could tell us of a firm of agricultural chemists styled Allen Robinson & Co., who in 1846 were carrying on business at 2 Oxford Square, Hyde Park, London. As there is a sum of about 400l. waiting for them, or their present representatives, we repeat our inquiry, and hope some one will put us on their track.

MR. ELIAS BREMRIDGE, ex-secretary and registrar to the Pharmaceutical Society, is so seldom seen in pharmaceutical circles nowadays that it will interest many to know that he has come out of the past severe winter with vigorous health. He wears his years well (Mr. Bremridge is well on his way to be a nonagenarian), and has just left town for a short sojourn at Bournemouth.

MR. F. W. SHORT, B.Sc., Secretary of the School of Pharmacy, leaves the Square at the end of June to take up the scientific management of Messrs. W. J. Bush & Co.'s essential-oil laboratories at Hackney. Mr. Short will be missed at the Square, for he has always been a favourite with Professor Attfield's pupils. He is not the first Square demonstrator to make essential oils the subject of special study. Professor Tilden, Mr. John Moss, and the late Mr. R. H. Davies are amongst his predecessors in that branch of research.

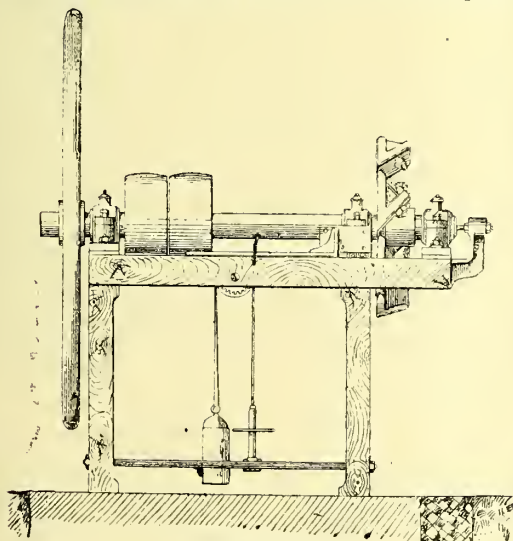
MR. A. W. BALL who has filled a responsible position in the establishment of Messrs. Burroughs, Wellcome & Co. for the past nine years, especially in representing them before a large number of metropolitan physicians, has accepted an engagement with Messrs. Oppenheimer, Son & Co. (Limited), and will shortly enter on his new duties. Before entering the employment of Messrs. Burroughs, Wellcome & Co., Mr. Ball had been a dispenser in the pharmacies of Mr. Cooper, at South Kensington, and Messrs. Savory & Moore, New Bond Street.

A PRESENTATION to Mr. S. M. Seward, manager to Messrs. Davy, Yates & Hicks, manufacturing chemists, 64 Park Street, Southwark, took place on May 29, on his leaving the

employ of the firm, in which he had been for upwards of thirty-five years, to take the entire management of the Rosmarine Manufacturing Company, perfumers and proprietors of Petal Dust, 54 Stamford Street, S.E. Mr. Geo. Wallis (town representative) presided and expressed the regret of the staff at losing Mr. Seward, and wished him prosperity in the future. On behalf of the employes, he asked Mr. Seward to accept a timepiece and album with their autographs as some token of their esteem. Mr. J. Howell, who was in the service of the firm when Mr. Seward entered; Mr. Geo. Largen, the senior employe of the firm, who had been with them for over fifty-four years; Mr. J. Richards, who also remembered Mr. Seward's entry into the house; Mr. A. A. Hatherley, the senior of the counting-house; and Mr. Todman, an employe of over forty years, also spoke. Mr. Seward tendered his sincere thanks for the handsome present and for the kind words which had been spoken. He must admit he felt sad at leaving them all, with many of whom he had spent many happy years of friendship, and he wished everyone present happiness and prosperity. The employes present, including the ladies, mustered nearly one hundred.

Distillation of Sandalwood Oil.

MR. CHARLES A. SERRE, B.Sc., describes in the *Druggists' Bulletin* the manufacture of sandalwood oil, illustrating his notes with drawings of two machines, which we reproduce in reduced facsimile. It may be explained that East Indian sandalwood is in the form of chips, logs, and roots. Chips are bought by distillers who have not chipping-machinery. This wood yields only $\frac{1}{2}$ to 3 per cent. of oil, which is not equal to that derived from logs or roots. The logs are about 3 feet 6 inches long, and should average 4 to 8 inches in diameter; any smaller branch being immature, of low yield and quality. Best of all are thick stumps, or upper roots, yielding on an average 64 per cent., but presenting difficulties in handling. Chipping is the first operation, unless the logs are too large, when they are split with steel wedges and a

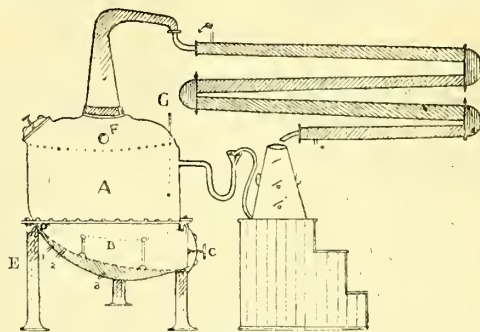


CHIPPING-MACHINE.

Total length, 1.6 meter; total width, 1.4 meter; diameter of the flywheel, 1.4 meter.

sledge-hammer. The chipping-machine is made by Messrs. Bnffaud & Robatel, Lyons, and has a speed of 400 revolutions per minute, making with the eight blades, 3,200 cuts, or a capacity of 500 lbs. an hour. The chips are afterwards ground in a Carter's disintegrator. A loss of 4 per cent. in these two processes has to be reckoned with. Until a few years ago, distillation was conducted in a crude sort of way, the wood being placed in 900-gallon to 1,000-gallon copper stills, covered with water, and stewed six days. A stirring-arrangement in the form of a chain was kept turning, and the whole was placed in charge of a man who knew nothing and was anxious to forget it. An illus-

tration of the modern still is given above, and the operation lasts thirty-six instead of seventy-two hours. The Florentine



SANDAL-OIL STILL.

A is a double-jacketed copper still, with manhole discharge at c, on the under side of which the thick copper diaphragm B rests with bing at D; E is the upper manhole, F two sights, and G thermometer. No. 1 is jacket inlet, No. 3 outlet, and No. 2 live steam. The capacity of the still is 900 gallons, sufficient for a 700-lbs. charge. Depending on quality of wood, either live steam, jacket steam, or both are turned on.

receiver, shown in the illustration, may be used, but Mr. Serre explains that he has a secret apparatus for collecting the oil.

Adulterated Sandalwood Oil.

A PAPER on this subject was read at the meeting of the Society of Public Analysts at Burlington House on Wednesday evening by Messrs. Pearmain and Moor, who have for some time past examined commercial samples of the oil. The object of the note was, primarily, to draw attention to a case of adulteration of an extraordinary kind; and, secondarily, to offer the results of some analyses of pure sandalwood oil and of cedarwood oil, which is a very common adulterant of the former oil. A sample of capsules was purchased as containing pure sandalwood oil, and found to contain only castor oil with a small quantity of an unsaponifiable oil not identified. On analysis the oil yielded the following figures:—

Specific gravity	.. .. .	9833
Iodine-absorption	.. .. .	88.0 per cent.
Unsaponifiable oil	.. .. .	5.0 "
Valenta (84 per cent. acid)	.. .. .	100° C.
Soluble in glacial acetic acid.		
Soluble in 3 vols. S.V.R.		
KOH to saponify	.. .. .	17.0 per cent.
Corrected for unsaponifiable oil	.. .. .	17.9 "
Fatty acids solid at	.. .. .	0° C.
" " melted at	.. .. .	13° C.
" " iodine absorbed	.. .. .	90.1 per cent.

The slightly elevated numbers obtained for the iodine-absorption and optical activity were, in all probability, due to the 5 per cent. of unsaponifiable matter. The oil also gave an intense green colour with bromide of tin. This was also due to the same cause, as when the unsaponifiable oil was separated the reaction with it was much more intense. Pure sandal oil gives a blood-red, and cedar oil a purple, colour with this reagent. The samples of sandal and cedar oils which the authors examined gave the following figures on analysis:—

Oil	Source	Gravity	Iodine	Rotation	Valenta
Sandal	Indian	9815	226.0	-13.84°	60°
"	"	9792	225.0	-15.21°	50°
"	"	9788	246.5	-15.55°	52°
"	"	9792	244.1	-15.7°	47°
"	"	984	215.3	-19.53°	—
"	Australian	9496	239.5	+ 6.19°	50°
"	"	9495	228.6	+ 4.82°	52°
Cedar	"	9819	200.4	- 33°	over 100°
"	—	9840	241.5	- 26°	" 100°
"	—	—	—	- 30°	" 100°

It not infrequently happens that papers of this character are followed by activity of food and drugs inspectors.

New Companies and Company News.

NETLEY HOUSE (LIMITED).—Capital 10,000*l.*, in 1*l.* shares. Objects: To acquire and carry on the business of a medical and surgical home carried on by Mrs. Woodhouse, at 26-28 Henrietta Street, Cavendish Square, London, W., and to adopt an agreement for the purpose. The regulations of Table "A" mainly apply. Registered office, 8 Drapers' Gardens, E.C.

S. CHIVERS & CO. (LIMITED).—Capital 12,000*l.*, in 10*l.* shares. Objects: To acquire and carry on the business of wholesale and retail vinegar-brewers, jam, pickle, and sauce manufacturers, manufacturing confectioners, manufacturing chemists, &c., carried on as "S. Chivers & Co." at Cardiff. The management is vested in governing directors, who are to hold at least 100 shares. The first are Samuel Chivers (chairman) and Isaac Padfield (deputy-chairman). Remuneration, 300*l.* per annum each.

BRITISH DRUGGISTS (LIMITED).—Capital 5,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers, retailers, and vendors of and agents for patent and other medicines, specifics, drugs, and preparations of every kind. The first subscribers (each with one share) are:—F. A. Roe, 219 Oxford Street, W.C., manufacturing chemist; A. C. Halse, 16 Mark Lane, E.C., analyst; Mrs. L. Crane and F. C. S. Crane, clerk, 4 Rockhall Road, Cricklewood, N.W.; E. Wiley, 23 Woburn Place, W.C., clerk; D. T. Lark, 13 Lidyard Road, Highgate, N., clerk; E. H. W. Wiles, 9 Downham Villas, Earlsfield, clerk. The first director is Frederick A. Roe, who has been appointed for five years from the incorporation of the company. While he holds office he shall be entitled to be chairman of the board. Qualification, 100*l.*

ROBERT INGHAM CLARK & CO. (LIMITED).—Capital 300,000*l.*, in 10*l.* shares (of which 15,000 are 6*l.*-per-cent. cumulative preference). Objects: To acquire and carry on the business of a varnish, japan, and colour manufacturer, and maker of and dealer in chemical, industrial, and other preparations, articles, and compounds carried on by R. I. Clark at West Ham Abbey, Essex, St. Helen's Place, London, E.C., and at St. Denis, near Paris, France, and to enter into an agreement with him for the purpose. The first subscribers (each with one share) are:—R. I. Clark, F. W. F. Clark, S. N. Griffiths, varnish manufacturers, Mrs. R. I. Clark, R. F. Clark, undergraduate, Cantab, and John Pettigrew, F.I.C., chemist, all of 6 St. Helen's Place, E.C.; and H. Passmore Edwards, 51 Bedford Square, W.C., newspaper proprietor. Instead of a board of directors, Robert I. Clark, so long as he holds 5,000 of the shares allotted to him pursuant to the above-mentioned agreement, is to be governing director and to exercise all the powers of a board. Remuneration, 500*l.* per annum. Registered office, 6 St. Helen's Place, London, E.C.

RENNY, FORBES & CO. (LIMITED).—Capital 2,000*l.*, in 5*l.* shares. Objects: To acquire and carry on the business of chemical-manufacturers, size, glue, gelatine, and artificial-manure manufacturers, oil, fat and tallow melters, soap and candle makers, veterinary-medicine manufacturers, &c., carried on by "Renny, Forbes & Co." at Alperton, Harrow, Middlesex, and to enter into an agreement with R. H. A. Atkin and W. A. Wade. The first subscribers (each with one share) are:—R. H. A. Atkin, Alperton, Harrow, chemist; W. A. Wade, gentleman, and Mrs. E. Wade, Tower Bank, Sawrey, Lancs; Miss E. Atkin, 6 Clearmont Crescent, Morecambe; Miss A. Fletcher, 4 Park Road, Halifax; J. Snowden, 71 Westminster Road, Morecambe, draper; W. Firth, 16 Chaucer Road, Herne Hill, clerk. The first directors (to number not less than two nor more than five) are Royal H. A. Atkin (chairman) and Walter A. Wade. Each may be a permanent director so long as he holds one-third of the issued capital. The former is to be the managing director, starting from January 1, 1895, with a salary of 208*l.* per annum, and the latter will also become a managing director at the same rate of remuneration as from January 1, 1896. Registered office, Alperton, Harrow, Middlesex.

STEINHOFF, SONS & MUIR (LIMITED).—Capital 17,750*l.* in 5*l.* shares (1,800 5*l.* per cent. cumulative Preference). Objects: To acquire, take over as a going concern, and carry on the business of colour and chemical merchants, manufacturers, dealers, and importers, carried on by Ernest H. G. Steinhoff, Robert W. Muir, George J. A. Steinhoff, and John A. F. Steinhoff, as "Steinhoff, Sons & Muir," at 20 Jewry Street, E.C., and to adopt an agreement for the purpose. Office, 20 Jewry Street, E.C.

ROSBACH SPRINGS (LIMITED).—Capital 120,000*l.*, in 1*l.* shares. Objects: To acquire the business of the Rosbach Water Syndicate (Limited), to acquire certain lands and springs at Rosbach, Rhenish Hesse, Germany, and to manufacture, sell and deal in mineral and aerated waters and all drinks, and articles usually sold by licensed victuallers, publicans, grocers, and chemists. The first subscribers (who each take one share) are:—J. Hertz, Haddon Hall, Enfield, merchant; P. Collingwood, Beaufort Lodge, Cafford Bridge, merchant; F. I. Kirk, 62 Angell Road, Brixton, accountant; W. R. Breeding, jun., 235 Hainault Road, Leytonstone, clerk; A. W. F. Craggs, 1 Powerscroft Road, Lower Clapton, clerk; W. J. Manson, 20 Brook Street, Kennington Road, S.E., clerk; W. O. Grace, 40 Woodside Road, Woodside, S.E., clerk. The first directors (to number not less than three nor more than seven) are Jacob Hertz, Percy Collingwood (managing directors until 1900 with a percentage of 5 per cent. of the sales divided between them, to include their salary as ordinary directors), Henry W. Royle, Edwin A. Wallis, Edward Moore, J.P., and Alexander Ashby. Qualification, 200 shares. Remuneration, as the company may decide.

THE MEDICAL ELECTRICAL INSTITUTE (LIMITED).—From the observations of the Senior Official Receiver (Mr. C. J. Stewart) issued under a winding-up order recently made in this case, it appears that the company was registered on October 16, 1894, with the object of acquiring the business hitherto carried on by the Medical Battery Company (Limited). An order for the winding up of the old company was made in 1893. Subsequently a scheme of reconstruction was sanctioned by the Court, and the Medical Electrical Institute was the outcome. Mr. C. B. Harness, who had been the managing director of the old company, was appointed manager of the new company at a salary of 600*l.* a year. The new company was not able to carry out the terms of the scheme of reconstruction, and in January last a receiver was appointed by the Court for debenture-holders. On commencing business, advertisements were inserted by the new company in newspapers upon a considerable scale; but the secretary states that the advertisements did not produce sufficient business to pay expenses. After paying the costs of liquidation, the margin of cash left for working-capital was only about 1,000*l.* The statement of affairs shows liabilities 11,614*l.*, of which 5,472*l.* are unsecured, with net assets *nil*. The failure of the company is attributed to loss on the trading, and to the want of funds to carry on the advertising for such a length of time as might possibly have rehabilitated the business.

A DOCTOR'S SUICIDE.—"Good-bye," said Dr. Reginald Conrad Fraser, of Poplar, to his housekeeper, on Monday last. "Are you going out?" she asked; and he replied, "No, I have taken poison; I have taken prussic acid. Good-bye," at the same time throwing an empty glass on the floor. There was a bottle labelled "Prussic acid" on the table, but as there appeared to be no alteration in the deceased, the housekeeper said, "You are a fraud! Why did you try and frighten me?" A few minutes later, however, the poison began to take effect. She asked, "Why did you do it?" and he said, "Through drink—drink." He lay down on the couch, and died shortly after. Deceased had often said, "What's the good of living when one can get out of one's trouble so easily?" Deceased, who had private means, had been in monetary difficulties lately. Mr. Wynne Baxter, who conducted the inquest, said that it was shocking to find a highly-educated and scientific man come to such a terrible end. What made the matter more painful was the fact that on Saturday last the deceased appeared before him to give evidence in such a condition that he was obliged to tell the jury to disregard his testimony.

Scientific Notes.

Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected, and Translated.

LINSEED OIL.

THE following data in regard to different kinds of linseed oil are given by Filsinger:—*English oil*, s.g. 0.9308, iodine number 180, saponification equivalent 187; *German oil*, s.g. 0.9313, iodine number 182.5, sap. eq. 192; *Dutch oil*, s.g. 0.937, iodine number 162; *Indian oil*, s.g. 0.9313, iodine number 180, sap. eq. 192. All the oils are optically active, except the Dutch, which is +24° to +28°. This rotation is due to the presence of rosin oil, so that the Dutch article should be avoided.

SCOPOLAMINE.

OWING to Ladenburg's statement that this alkaloid is identical with hyoscyne, E. Schmidt, its discoverer, has returned to the subject, and maintains the correctness of his earlier researches. He has prepared characteristic gold and platinum salts of the alkaloid, also derivatives, which are perfectly distinct. Scopolamine is optically active (laevorotatory), but the double hydrobromide with silver is inactive.—*Arch. d. Pharm.*

CHRYSOPHANIC ACID.

DR. O. HESSE points out that the chrysophanic acid of commerce does not contain any of that acid—a fact which has been known for a long time. He obtained the acid from rhubarb by treating with ether, purifying the residue by successive treatment with alcohol, chloroform, and potassium-carbonate solution; and crystallisation of the acid from hot alcohol. So obtained it melted at 178° C., and its formula is $C_{15}H_{10}O_5$. It dissolves in concentrated sulphuric acid with a deep-red colour. Boiled with hydriodic acid it yields a new body—chrysophanhydroanthene, $C_{15}H_{12}O_3$ —which is a brilliant yellow-colored flaky powder.

HELIOTROPIN.

HELBING AND PASSMORE mention in the *Pharmaceutical Zeitung* that 37° C. is generally considered to be the melting-point of heliotropin or piperonal, but they find that the pure substance melts at 36.1° C., and this, in fact, is what the best commercial samples give. Absence of vanillin and benzoic acid from piperonal may be proved by rubbing 1 gr. with 1 dr. of distilled water, adding a little ferric chloride, when no green or bluish colour should be produced. Heated with potash solution and a few drops of chloroform, no isonitrile odour should be produced, showing the absence of acetanilide. The authors also provide for the absence of non-aldehydic bodies by shaking 1 gr. of the heliotropin with a cold saturated solution of potassium sulphite, when the heliotropin dissolves, but in a short time crystallises out as a double salt of piperonal. The solution is then shaken with ether, the latter washed with water, and evaporated, when there should be no residue.

ROSE GERANIUM IN OTTO OF ROSE.

ROBERT JEDERMANN has been experimenting on the detection of geranium oil in otto, and has come to the conclusion that there is no reliable test. Schiff's colour-reaction and Hager's turbidity-test are both unsatisfactory, and the freezing-point and specific gravity of the oil inconclusive. The specific gravity of otto of rose varies according to the conditions of production and preparation. Its pure stearoptene has a specific gravity of 0.813, while that of the stearoptene-free oil varies from 0.8730 to 0.8735. As the amount of this constituent in Balkan rose oil varies from 7 to 30 per cent., and as the specific gravity of geranium oil lies between 0.882 and 0.895, an otto containing but little stearoptene, and consequently having a high specific gravity, is liable to be suspected of adulteration; on the other hand, the detection of very small quantities of geranium oil is impossible. The behaviour of otto towards polarised light is also useless as a test, since rhodinol and geraniol are isomeric bodies, and behave similarly in this respect.—*Analyst*, from *Zeit. Anal. Ch.*

Medical Gleanings.

FOR SPERMATORRHOEA.

AN Indian medical practitioner reports (*Ind. Med. Rec.*) highly satisfactory results in treating night-emissions with powders, each containing 5 gr. of potassium bromide and the same of ferrous carbonate, taken night and morning.

FATAL GONORRHOEA.

IT rarely happens that persons suffering from gonorrhoea succumb directly from the effects of it, but Mr. Arthur Loxton, of Birmingham, mentions an instance in the *British Medical Journal*. The patient was a waiter, and through absorption of the septic material he took blood-poisoning and died.

SEA-SICKNESS.

THERE is no remedy for sea-sickness introduced within recent years which has stood the test so well as chlorobrom. Now and again a note appears in the medical journals commending it. The last is by Dr. W. F. Dale (*Lancet*, p. 90), in which he says it did good to himself and two fellow-passengers from the Falkland Islands.

"KINKELIBAH."

THIS is the native name of a bush (*Combretum glutinorum*), about 10 feet high, indigenous to various parts of Africa. Dr. E. Haeckel speaks of the leaves of the plant as a remedy for bilious fever, which is so fatal to European troops in West Africa. A 1-in-60 infusion of the leaves is administered in half-pint doses every ten minutes, until the feverish symptoms subside.

PHENACETIN-RASH.

WITH some patients phenacetin does not agree at all. Mr. R. M. West, of Ealing, mentions two cases in the *Lancet*. In one (a man of 23), two 5-gr. phenacetin tabloids caused a dense scarlatiniform rash, with a tingling, smarting sensation, on the face, chest, and arms. Two hours after the onset of the rash it disappeared. In the second case a young woman was in the habit of taking phenacetin; after each dose an urticarial rash, presenting raised wheals, came out on the face and neck.

THE ACTION OF COCAINE.

WE observe from a recent paper by Ehrlich and Einhorn that they say that MacLagan first observed in 1857 that the alkaloid from *Erythroxylon Coca* produced a sensation of numbness when placed on the tongue; thus apparently anticipating Von Anrep, who found in 1879 that cocaine has the property of a local anæsthetic. It would be interesting to know upon what grounds the authors make this statement. We have the best reason for saying that Sir Douglas MacLagan made no observations of the kind in the year given.

TO CURE RED NOSE.

FOR chronic erythema of the nose a correspondent of the *British Medical Journal* suggests the following prescription:—

Aloin	gr. ss.
Ferri sulph.	gr. ss.
Ext. nucis. vomice	gr. ss.
Pulv. myrrhæ	gr. ss.
Saponis	gr. ss.

Ft. pil. j.

To be taken once, twice, or three times a day, according to action on bowels. Avoid all alcoholic stimulants.

REMEDY FOR NEURASTHENIA.

THE following was a favourite prescription of Sir Andrew Clark's for various kinds of neurasthenic debility:—

Acid phosphate	ʒj.
Ext. cocæ liquid.	ʒss.
„ damian. liquid.	ʒss.
Tr. nucis vomice.	℥x.
Syrup. zingib.	ʒj.
Aq. ad	ʒss.

Ft. dosis.

Sig.: To be taken in water at 11 A.M. and 6 P.M.

—The Practitioner.

Chemist and Sub-Postmaster.

THE town in which the business was situated was a good market town in the South Midlands, and the shop was in the main road of a fairly large snuburb, amongst a middle and working class population.

The business was for sale through the death of the late proprietor, and the first thing to do to secure the office was to apply to the M.P. for the division for his nomination to the post. This is one of few remaining pieces of patronage which belong to a member of the House of Commons. It is only the sub-postmastership which he can nominate for, as head-postmasterships are only open to the established (Government) staff. The application was duly made, and in a few weeks notice was received that the Postmaster-General, at the recommendation of the Lords of the Treasury at the wish of the M.P., had favourably received the application, and appointed the applicant to the post.

The next thing was to get a guarantee for a bond of 200*l*. This varies according to the amount of work of the office. Of course, private guarantors, if approved, are accepted, but the easier plan is to join the P.O. Mutual Guarantee Association, whose terms are 7*s*. 6*d*. per 100*l*. This satisfactorily settled, the next thing was to take possession. The first day was occupied with a long visit from the head-postmaster of the town, to explain the various documents required and the book of rules. Then the work began; and as the duties of the various days are all much alike, a description of one day's work will suffice.

The first job each day was to change the date-stamp, in which the top is removable. Then the sale of stamps would begin before breakfast was over. It was a case of finishing in pieces, and not in peace. Then a postal order would be wanted. This had to be stamped in the right-hand corner, and signed with the issuing officer's name. A postal order would next have to be paid, and stamped in the left-hand corner and initialled by the paying officer. Then, perhaps, a money-order would be required. This would have to be written in duplicate by the aid of carbon-paper, and then detached from its pad and stamped with the date-stamp, and the duplicate half sent off the same day to the postmaster of the place where the money-order was made payable. If the order was issued upon a small village, the place had to be looked for in the list of offices, to see if it were a money-order office; if not, the order had to be made upon the nearest office, which would be shown in the list. Then all the details of the order had to be inserted upon a sheet, to be sent to the G.P.O. If a money-order had to be paid, an advice would be received from the issuing office, and when the order was presented for payment the two had to be carefully compared and the name of the sender ascertained, and the payee's signature compared with the name on the advice.

A letter would then be presented for registration. The name and address, postage and registration fees paid, would have to be entered in a book, in duplicate, one part given to the sender, and the other retained for future reference, if required.

Then a parcel would be brought in. The weight had to be ascertained, and if the necessary stamps were not affixed these had to be given to the sender to put on to the little docket which is seen on all parcels; this docket was then stamped with the date-stamp and stuck on the parcel. This would be given to the postman when he cleared the letter-box the next time, and a parcels-bill upon which it had been entered, and which entry he would initial before leaving the office. The registered letter would also be given him, and initialled for on a different bill. At this office there were six collections of parcels and registered letters a day, and eight of letters only. Letters were taken from the box outside, and had nothing to do with the sub-postmaster. The parcels, &c., bills would be given to the postman collecting each time he called, and if there were no parcels, &c., to go, the bills would be just crossed over with the stroke of a pen.

A Savings Bank customer would now be waiting with a deposit. The sum to be left had to be entered on a sheet—on a blue one if the book had been originally issued from that office, on a white one if from any other office in the

United Kingdom. Then the entry would be made in the depositor's book. If a withdrawal were made, the sub-postmaster would receive from the Savings Bank Department, G.P.O., a duplicate of a warrant sent to the person withdrawing the money.

Once a week, on Tuesdays, the "Post Office Circular" arrives. This is the P.O. "Bradshaw," and contains particulars of all alterations, such as new offices opened, old offices closed, and variations in the status of small offices. The last one of the month generally contains a list of foreign and colonial offices freshly opened. All these alterations have to be inserted in the various books, of which fresh copies are published yearly.

The sub-office referred to was a telegraph office, but only received messages from the public to be sent away; messages to be delivered in the neighbourhood were all sent out from the head office. The messages were sent up to the head office to be re-transmitted to their destination, except to two village offices with which the sub-office had direct communication. At first the instrument used was what is known as an "A B C," but this was afterwards changed for a telephone, which was much easier and less liable to get out of order.

After the day's work was over at 8 P.M., as far as the public were concerned, there remained a good deal for the sub-postmaster to do in balancing his accounts. Every night a balance-sheet had to be made up to be sent to London the following day. With it had to be sent abstract accounts of the transactions of the day in the various departments. This was frequently a work of some time, especially if extra busy, as the money received for stamps would get mixed with the postal-order and money-order money, but all had to be cleared up nightly, and anything short would have to come out of the day's takings in the drug-business, as that also got mixed in sometimes.

The remuneration for all these duties just about paid the rent, and that is something nowadays. Nothing is allowed on the sale of stamps, postcards, wrappers, licences (of which many are sold at post-offices now). A small salary is allowed for indoor responsibility, as it is called, and a commission of 1*d*. on each telegram sent. For savings-bank, money-order, and postal-order work a small commission is also given.

The office referred to was only a small one, and there was no room for a separate counter for the work, which was often a source of great inconvenience. But of an evening especially plenty of business was done, and the writer, who worked both the drugs and post-office alone, was often very hard pushed, and it would not do for a person naturally slow to try the combination.

Does it pay, take it all together? I think it does, and can recommend it especially to a young and active beginner. I would not have got out of it if the shop had been larger and more convenient, and if a better chance in the drug-business only had not offered itself.

Of course, it gives one an insight into human nature, and many tales have to be listened to in a small office about—"My Jack sent me that (postal-order) out of his wages. Bless the dear boy for thinking of his old mother!" Lessons of politeness have to be frequently given to youngsters who want 1*d*. stamps and forget the "please!" Some would bring parcels and say, "They will pay at the other end." Of course these had to be respectfully declined. That the public should sometimes complain of brusqueness at a post-office counter is not surprising. The style in which stamps, &c., are often demanded, and the unnecessary questions frequently asked, are enough to ruffle the temper of even a mild-mannered "chemist and sub-postmaster."

Is the work easily learnt? I can only say that I had absolutely no knowledge of the details of the duties when I began it, and the instruction I received was only what a lad who had been with my predecessor could give. In any doubt the local head office always cheerfully gave information. It is best to "keep in" with the postmen, too, as they can often help in minor details.

It is wise to keep strictly to the hours fixed, and courteously but firmly refuse to serve stamps, &c., after office hours, or on Sundays (when town sub-offices are closed).

The writer will be pleased to answer any short pertinent inquiries from anyone who writes to him care of editor C. J. D., enclosing stamped addressed envelope. C. J. J.

Veterinary Counter Remedies.

WE reprint the following seasonable formulæ from "A Manual of Veterinary Therapeutics and Pharmacology," by Mr. A. Wallis Hoare, F.R.C.V.S., of Cork, which has just been published by Baillière, Tindall & Cox. It is a useful book, and those chemists who wish to know more about veterinary therapeutics than they have learnt from "Veterinary Counter Practice" would do well to invest half-a-guinea in it.

Cough-powders.

Useful in the simple coughs of horses depending on catarrh:—

Pulv. camphoræ	℥ij.
Potass. chlorat.	℥ss.
Pulv. fol. belladon.	℥ss.
Pulv. anisi	℥ij.

Div. in pulv. vj.

Give one twice a day in the food.

For chronic cough in the horse the following are good:—

Pulv. fol. acutiti	℥vj.
Pulv. digitalis	℥iv.
Arsenic. alb.	gr. iv.
Pulv. anisi	℥ss.

Div. in pulv. vj.

Give one every night in the food.

Cough-mixture for Dogs.

Tr. belladonnæ	℥ss.
Syr. scillæ	℥ss.
Tr. camph. co.	℥j.
Aq. ad.	℥vj.

M.

Give two teaspoonfuls three times a day.

Colic-draughts for Horses.

For Simple Colic.

Chlorodyni	℥ij.
Spt. æther. nit.	℥vj.
Ol. lini	℥j.

M.

Give at one dose, and repeat in two hours, if necessary.

For Flatulent Colic.

Creolin	℥ss.
Ol. terebinth.	℥ij.
Spt. ammon. arom.	℥ij.
Tr. asafetidæ	℥ij.
Ol. lini	℥ss.

M.

For one dose.

Draught for Hoven in Cattle.

Creolin	℥j.
Ol. terebinth.	℥iv.
Spt. ammon. arom.	℥iv.
Ol. lini	℥ss.

M.

For one dose.

Influenza in Horses.

Chlorodyni	℥j.
Spt. æther. nit.	℥vj.
Liq. ammon. acet.	℥ij.
Aq. ad.	℥xvj.

M.

This dose is to be given every three hours during the first stage, when much shivering is evident.

Throat Liniment.

Ol. terebinth.	℥j.
Liq. ammon. fort.	℥j.
Ol. olive	℥j.

M.

Stimulating White Liniment.

Ol. terebinth.	℥xvj.
Camphore	℥j.
Saponis mollis	℥ij.
Aq. destil.	℥ij. vel q.s.

Mix the soap with the water; dissolve the camphor in the turpentine; mix the two, and bring down to the desired consistency with water.

Ointment for Grease and Cracked Heels.

Sulphur. subl.	℥j.
Plumbi acetat.	℥ss.
Creolin	℥ss.
Ol. eucalypti	℥ss.
Vaselini	℥iv.
Lanolini	℥iv.

M. Ft. ung.

Apply twice daily.

Fly-blister.

Pulv. cantharidis	℥xxx.
Ol. terebinth.	℥xij.
Acid. acet. fort.	℥ix.
Lanolini	lb. iiss.
Vaselini	lb. iiss.

Mix the first three, and allow to stand for twenty-four hours; then add the lanoline and vaseline, melted on a water-bath, and mix well, stirring until cold.

At the Counter.

"QUIT SHUILL for whooping-cough" is how a Liverpool customer wrote it.

LITTLE GIRL: "Please, sir, do you keep electrical currants?" Chemist: "No, miss; you will get them at the grocer's."

"PLEASE will you give me two blue seidlitz powders? Mother has got the whites." A Southsea customer adopted this manner of asking for what he wanted.

SOMEONE sends us this order:—"1 Pacet of Best Boleret Powder." We thank the sender also for the note which he adds telling us that violet-powder was meant.

YOUNG WOMAN: "Two worm-powders, please." Chemist: "How old is the child?" Y. W.: "They are not for a child; one is for a cat." Chemist: "Oh! yes, yes; and the other?" Y. W.: "The other is for myself."

THIS was an exceptional request sent to a Worcester chemist by a "genteel customer":—"Will you kindly give this fowl a dose of strychnine, as we are going to put it in a safe place for the rats to eat, as we are so troubled with them?"

THE ACCENT ON THE COUNTER—Expiring Suicide: "I have just swallowed some strychnine, and want an antidote!" Druggist Wæg: "You can't get it here. We administer no antidotes. Counter-prescribing is against the law."—*Spatula*.

A "FAR NORTH" subscriber contributes the following:—"A mixture for diwhurry." "A Baby's theing powder. 10 monthes." "1 Penny with of Parent Pills." "A penny-worth of black stuff for making sair bellies better in a bottle" (syrup of senna supplied).

IT is not every dispenser who would be equal to this prescription:—

Ol. sambuci	℥ii.
Ol. lumb. ic.	℥ii.
Ol. orig.	℥ii.
Lr. opii	℥i.
Lm. saponis.	℥ii.

G.S.

It was presented at an historic Newcastle pharmacy by a bucolic customer. One of the principals had no difficulty in settling the second ingredient—ol. lumbricoides, oil of worms; but how did he settle the quantities?

GOLD MEDALS 1884-1885-1886-1888.

"SANITAS" DISINFECTANTS

TRADE MARK.

"SANITAS" EUCALYPTUS PREPARATIONS.
Kingzett's Sulphur Candles and Sulphugators,
Kingzett's Drain Testers,
Preserved Peroxide of Hydrogen,
Mercuric Bactericide, Eucalyptus Oils.
L. G. B. Corrosive Sublimate Pellets; "Creocide" Fluids and Powders;
Carbolic Fluids, Powders and Soaps; Soluble Carbolated Creosote; Weed
Destroyer, Sheep Dips, &c.

THE SANITAS CO., LIM., Bethnal Green, LONDON, E.

ELLIS'S TABLE WATERS

"Well charged with gas, and in every respect of the very best quality for drinking."—PERCY F. FRANELAND, B.Sc., F.C.S.

"Typically Perfect."
—Medical Press.

SOLE ADDRESS—

[1]

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THE B.P. MOVING.

THANKS mainly to midwives and infamous conduct, it has taken the General Medical Council a considerable time to reach that part of their summer session's business which most interests pharmacists—viz., the revision of the British

Pharmacopœia. And now that the subject has been reached, the position in which the scheme of revision is passed can be considered satisfactory. Briefly, it amounts to this—that the revision is to proceed expeditiously under the charge of the Pharmacopœia Committee, with Professor Attfield as editor and a number of specialists to assist them and him. Dr. Nestor Tirard, the editor of Garrod's "Materia Medica and Therapeutics," is to be the medical secretary of the Committee and Sir Richard Quain's immediate assistant; Dr. T. E. Thorpe, of Somerset House, is to be asked to act as chemical referee, and if he cannot, Dr. Russell, the President of the Institute of Chemistry and lecturer on chemistry at St. Bartholomew's Hospital. For botany and microscopy Mr. Thistleton Dyer, of Kew, and Mr. E. M. Holmes, have been chosen as referees; and for pharmacology and therapeutics Dr. Lauder Brunton, Professor T. R. Fraser, and Professor Walter Smith. Some wise prophets of Auld Reekie, who professed to be "in the know," said that this was to be done; but we may explain that the new arrangement has only been formulated and the referees selected since the appointment of the new Pharmacopœia Committee on May 29. We quite recognise the necessity for the appointments, which do not in the least minimise the duties which have hitherto fallen to Professor Attfield. Their functions relate to the department covered by the Council's own members, and those subjects in which the Editor does not profess to be a specialist. We do not know what a chemical referee will do, but it is a good move to get the head of the Somerset House laboratory interested in our national Pharmacopœia. Perhaps a referee in practical pharmacy matters would have been useful, but we understand that the Pharmaceutical Committee is to receive the onus of that department. We are not in a position at present to deal fully with Professor Attfield's annual report, but we may say that in several respects it is the most notable of the series which he has written since his appointment, for it focusses some of the leading considerations which must be taken into account when the actual work of revision begins. The Council have already had before them the Pharmaceutical Committee's list of omissions and additions, supplemented by tables of statistics which amply justify the strictures which we made upon it in our issue of June 1. Doubtless this fact will receive the consideration of the Pharmacopœia Committee. Professor Attfield has been engaged during the past year in working up schemes which have been put forward for adoption in the B.P., particularly processes of standardisation. In the Pharmacopœia Committee's report adopted on Thursday reference is made to the reports received from colonial, Indian, and British authorities, the whole of which Professor Attfield has summarised, and has given special attention to the British reports, Mr. Martindale's prescription analyses, and the Pharmacopœia criticism of the year. Here we may say regarding recent strictures about B.P. definitions of chemicals that several years ago in an annual report Professor Attfield advocated such abbreviation as has been recently advised. But, it should be noted, that clause 54 of the 1858 Medical Act imposes upon the Medical Council a certain duty in this matter, and it is obvious that this legal obligation necessitates, in regard to chemicals as well as galenicals, that the British Pharmacopœia must give "the manner of preparing them." We presume that if this were not done it would be open to any person to apply to the High Court for a ruling that the British Pharmacopœia did not accord with the statutory requirements, and, therefore, was not binding. With such dire catastrophe apparently in view, concentration of chemical processes beyond the legal and practical minima would be impracticable.

There has been a hope in some quarters that the method of revising the Pharmacopœia would be completely revolutionised at the Medical Council meeting; but it will be observed from the foregoing that there is no interruption to the work already begun, and it should be a satisfaction to pharmacists that Professor Attfield continues in his post, and that he is to be assisted directly by the Pharmacopœia Committee of the Pharmaceutical Council. That pharmaceutical criticism has been appreciated is clearly indicated by Sir Richard Quain's remarks, which we published last week, no less than by his Council's adoption of the report recommending a continuation of the association with the Pharmaceutical Society, and the calling in of distinguished experts in consultation with the Committee and the Editor. We gather from the proceedings at the Council meeting on Thursday that the work of revision, especially in reference to practical matters which Professor Attfield's staff has already been working upon for more than a year, will be entered on forthwith, and before the end of 1897 a new British Pharmacopœia, worthy of our Empire's medicine and pharmacy, will be published.

IODINE ALLEGED TO BE A COMPOUND.

MR. AUGUSTE STRINDBERG, a Swede, residing in Paris, who writes plays as a business and adopts chemistry as an amusement, has lately followed up a speculation in regard to the compound nature of sulphur by announcing in the *Temps* his discovery that iodine has also been unjustifiably posing as an element. He claims to have established that it is identical with a derivative of tar—an oxyhydroquinone.

Five years ago, he says, while engaged in the practice of photography, I constantly noticed the odour of iodine whenever I used pyrogallol or hydroquinone as developers; at the same time the brown coloration of these products struck me by its resemblance with certain iodates. Some time after I read in Roux's "Chemistry" that hydroquinone smells like iodine. This was a corroboration of my observation. One leisure day, taking up my Roscoe, I carried out some calculations. Assuming that hydroquinone as a developer had to be oxidised before it smelt like iodine, I reckoned the molecular weight of oxyhydroquinone $C_6H_3(OH)_2 = C_6H_5O_3$. Judge of my happy surprise when I found that this totalled to 126, exactly the atomic weight of iodine. Lately I have made further experiments. I heated hydroquinone in a crucible. The cooled substance was triturated with alcohol, which I again warmed and put into a glass funnel, the neck of which was stopped with white bread. When I placed the funnel on a starched cloth a blue ring of iodine was formed; moreover, the gluten of the bread had become coloured yellow, as albumens do in the presence of iodine. The room smelt of iodine, and its physiological effect, a nervous irritability, was also experienced. I have repeated this experiment in various forms, always with the same result. Therefore I do not hesitate to formulate iodine provisionally as $C_6H_5O_3$, classing it among the benzoloides trihydroxylates, and it is because of these hydroxyls, $(OH)_3$, that it possesses its reducing-powers—a heritage of chlorine which I formulate $OH_2 = 34$, which associates it with oxygenated water, H_2O_2 , without making it identical therewith. Have you never been astonished that no trace of iodine can be found either in seawater or in the marine algae before they are burnt? If iodine were a simple body this fact would remain inexplicable. It is now admitted that combustion constitutes a synthesis, and it is clear that iodine is produced by combustion.

Similarly, sulphur and phosphorus, which are not to be found in animal albumen, always exist in albuminoid ashes.

Let us examine the way Nature produces iodine. Saffron-flowers produce iodine, and an extract from them called saffranine can be produced, the formula of which is $C_{33}H_{31}O_{11}$. This may be reduced to $C_9H_7O_2 + H_2O$; the formula corresponds to that of iodine after eliminating H_2 . That is precisely the effect of the oxidation which takes place in a flower, and in the saffron-flower you may see the reaction of the disengaged iodine. The white petals have blue streaks where the vessels contain starch; the stamens and pistils are yellow because they contain albumen. That saffron possesses the reducing properties of iodine was proved by me lately by chance. A box containing vanilla and saffron had remained forgotten for about a year. When opened, the smell of eugenol—the odorous matter of the clove, and which gives vanilline by oxidation—was very distinct. In the near future we shall be able to extract iodine from the coal-tar products, commencing with benzene, which is oxidised with chloride of chromium into quinone, or we may form quinone by the action of sulphuric acid and bichromate of potash on aniline. The other day I transmuted vaseline direct into iodine by permanganate of potash with hydrochloric acid and a little nitric acid.

Mr. Strindberg will hardly expect chemists to adopt his theory, ingenious though it is in some respects, on the slender proof which he adduces. The calculation goes for very little. We could prove wood to be platinum by a little manipulation of molecular numbers. The allegation that iodine is not to be found in its natural state in the sea was disestablished last year by Mr. Stanford, the President of the Society of Chemical Industry, who, in the course of his inaugural address, showed some which he had extracted from the ocean, and estimated that it existed therein in the proportion of 1 in 291,000,000 (*C. & D.*, July 21, 1894). Mr. Strindberg's suggestion is, however, one of much interest, and may be fruitful.

CULTIVATING CAMPHOR.

In a recent issue of the *Gartenlaube*, the leading illustrated weekly of Germany, there is an article on "A German Industry in the Virgin Forests of the Island of Formosa." The writer treats his subject, which relates to the manufacture of camphor, from a patriotic point of view, not omitting to call attention to the fact that the intrepid pioneers to whom the extension, if not the creation, of the trade is due are his German countrymen. Only the coast-strip of the island, he says, is under effective control of the Chinese, and the dangers connected with the pursuit of camphor-distillation in the inhospitable forest-covered mountains of the interior are by no means slight, the country being inhabited by warlike savages, who distrust all foreigners, and entertain particularly inhospitable feelings towards the Chinese, whom they are fond of decapitating and torturing in a casual way—an attention which the Chinese repay with interest when they get the chance. In spite of these unpropitious conditions, German traders at the port of Tamsui, in the north of the island, organise regular camphor-expeditions into the interior, often many days' march from the coast. Camphor-trees, like primroses and Minor Poets, grow in clumps, but, unlike the last-named class, the trees cannot roll each other's logs. They must wait until the hardy German pioneers perform that work, cutting them up and boiling the valuable principle out of the chips, looking round uneasily the while to see that no Philistine Savage lurks in ambush. This is the reason that the camphor-trees (unlike the Poets) often flourish unrecognised for a century, without anyone to make

known their essential worth. At last, however, their turn comes, and they are none the worse for the maturing—a ripe, fifty-year-old tree yielding upon an average as much as a picul (133½ lbs.) of camphor. The German traders at Tamsui own some 900 or 1,000 rough stills, which they carry along with them on their expeditions, and put up in the first favourable location they meet with. A charge of about 2 cwt. of camphor-wood chips yields from 4½ to 7 lbs. of camphor, and this is a fair day's work for a still. The chips are boiled in water over an open fire, and the resulting steam, upon cooling, yields both essential oil of camphor and camphor. In Formosa most of the oil is thrown away; in Japan it is employed in lacquer-making, and for other purposes. From Tamsui the camphor is sent to Hong-Kong in cases, and is thence brought into European commerce. The yearly value of the trade has lately been about 35,000%. Now that the Japanese own the island, we may expect the enterprising German to take a back seat; for if there is anything the Jap can do well, it is to make the most of camphor-wood and its solid and liquid distillation-products.

The *Spectator* adverts to a curious incident in connection with the Formosa cession. That event, states, will directly affect every druggist and manufacturer of projectiles in Europe in consequence of camphor being produced only in Japan and Formosa, and of the use that is made of it in medical practice and in the composition of all the new explosives. The Japanese have limited and taxed the export of camphor, and its cost is therefore going up and may reach a high figure; but if the Japanese push their advantage too far, the *Spectator* thinks that Science will avenge herself and provide a substitute. The *Spectator* is so innocent that we scruple to add that Science is trying every day to make artificial camphor, and we doubt whether the Formosa affair will hasten the consummation a bit.

A CANARY-SEED SYNDICATE.

A FEW days ago a prospectus was issued on behalf of a concern adopting the name of "The Canary-seed Syndicate," which has for its object, so far as we can make out, the gambling in the staple food of the humble songster. Considering the speculative mania which has lately come over Mincing Lane, it is not surprising that all sorts of extraordinary combinations should be formed for no better purposes than the "cornering" of some articles which appear unduly depreciated. The "Canary-seed Syndicate" is controlled, according to the prospectus (which it is difficult to know whether to treat seriously or as a joke) by a "Committee of Five," the names of which are not given, although it is only fair to say that Mr. David Allester, described as a "seed-merchant," rescues the organisation from complete anonymity by lending it his name in the capacity of secretary. Rumour has it that the "Canary-seed Syndicate" is another manifestation of the speculative energy given off by the Nitrate-Soap-Newspaper combination that has lately deigned to turn its attention to Mincing Lane affairs; but this, we should say, is extremely doubtful. At any rate, the "Canary-seed Syndicate" are altruistic enough to give everybody a chance of participating in the profits which they expect to realise from the projected "corner" in canary-seed. They invite persons who may be disposed to speculate in canary-seed to pay to the committee sums of not less than 100%, to be credited to the depositor in the books of the Syndicate. When his money is once paid in the depositor practically loses all control of it, although, to be sure, his liability is to be limited to the amount of his deposit, and he has access to the book of minutes, in which any rules that the committee may issue

in the future are to be entered. For the rest "the depositor places the absolute control" over the amount invested by him with the Syndicate "into the hands of the Committee of Five, to be either held or invested in canary-seed as the committee may think fit." He must also abide by all the rules which the committee, by a bare majority, shall see fit to make, and in the event of a dispute between any depositor and themselves, "the committee are to have the right to act as sole arbitrators, or to nominate one of their number sole arbitrator, and the decision of that tribunal is to be final."

The "Committee of Five" are not only an anonymous, but also a magnanimous, body, for they state that they will give their services to the Syndicate "without any remuneration." If they know nothing of the canary-seed business, even their gratuitous services seem hardly worth having; if they know something of it, surely the depositors who are to be enriched by the gamble will not object to pay their Moltkes. Perhaps the nameless Five know just enough of the trade to render it desirable that they should step forth from their obscurity and give the public an opportunity of judging of their connection with the business. As it is, depositors are just expected to drop their 100*l.* cheques into the Lion's Mouth of a secret organisation and trust to Fortune, the five Anonymities, and Mr. David Allester that the gamble will turn out all right; for, according to the prospectus, deposits may be "invested in canary-seed or not, as the committee may think fit." Canary-seed has always been a favourite speculative article in the produce-market, although the position of the drug at present hardly seems to warrant the hope that a "corner" could be successfully engineered, for the reports of the coming crop in Turkey are considered favourable, and the tendency, on the whole, seems to be towards lower rates. Within the last half of May, it is true, a very large speculative business in the article has been transacted at rising prices, mainly in Liverpool; but since the holidays prices have again given way, and prime Turkish seed can now be bought at 47*s.* 6*d.* per quarter. In 1893 the Turkish crop was about 155,000 bags (15,000 tons), and the price fell to an abnormally low level; but in 1894 the crop was the shortest on record for many years past, being but one-third of that of the previous season, and this enormous deficiency has not been made good by any produce from any other quarters. Speculators have therefore turned their attention to the article, and prices have advanced some 20 per cent. It would appear, according to those who are prophesying high prices, that there is less canary-seed in England and abroad than is necessary to meet the requirements of dealers and bird-fanciers till October next, and that the position of the article is very much the same as it was in the year 1876, when the price rose from 13*l.* to 70*l.* per ton.

AMERICA ECONOMISES.

The *Pharmaceutical Era* has ascertained from the Secretary of the American Pharmaceutical Association that copies of the Year-book of the Association are not now sent to "foreign or domestic" journals of pharmacy. The *Era* "congratulates the special committee upon its magnanimity, and the liberal, progressive spirit it has shown in handling this matter." We heartily join in the *Era's* congratulations, especially because we have been thinking that the non-receipt of the Year-book ("Proceedings," it is called officially) was due to tardiness of production—a supposition scarcely compatible with American go-aheadness. But we quite recognise that it will be a much more dignified course for the

Association to pay for the journals which it requires for abstracting, which, we presume, is what the *Era* means when it speaks of the committee's "liberal and progressive spirit." Our subscription is the same for the United States as for England—10*s.* or \$2.50.

OUR ORANGE SUPPLEMENT IN AUSTRIA.

Several subjects of great international pharmaceutical importance were discussed at the last meeting of the Austrian Pharmaceutical Society in Vienna. One of these was the orange supplement to THE CHEMIST AND DRUGGIST, of which Dr. Hans Heger, a prominent member of the Society, and the editor-proprietor of the *Pharmaceutische Post*, exhibited a copy. It is, perhaps, hardly correct to say that the excitement was all about the supplement, for the doctor brought along the whole of our Winter Number, which was much admired. The 234 pages of advertisements especially excited Dr. Heger's enthusiasm, and, like a good journalist, he strongly commended the example of British business firms to the Austrian manufacturers, who as yet do not spend as much in advertising as would be good for them. After that, Dr. Heger turned to the orange supplement, concerning which we quote the report of the proceedings in the *Pharmaceutische Post* :—

Great merriment was caused by the illustrations, representing Brighton on a Wednesday afternoon, &c. The picture shows the Brighton Promenade. Brown says to a prosperous-looking apotheker of his acquaintance, whom he meets, "Oh! I am surprised to see you here. I thought you could never leave your shop." "Yes," replies Jones; "but I can leave it now, for, through my advertisement in the *C. & D.*, I have obtained such a good assistant that I can go for a walk every day." Another has sold his business, through a single insertion in the *C. & D.*, to such advantage that he can retire from active life. A third has found an excellent tailoring-establishment (*sic!*) through a *C. & D.* advertisement, &c. All these scenes are illustrated like the *Fliegende Blätter*.

The "tailoring-establishment" is, of course, the man who has found a good "crib," while his "cribless" colleague goes about shabby. They know English very well in Austria, but we do not expect them to be equally familiar with our slang.

WOMEN AND MORPHIA.

Dr. H. Macnaughton Jones, in the course of a paper contributed to the British Gynæcological Society on the dangers of morphia in gynæcological practice, particularly the use of the alkaloid subcutaneously by women, says that under no circumstances whatever should a patient be permitted to inject herself. Only small quantities of the solution should be ordered at one time, and such an amendment should be made in the Sale of Poisons Act as to prevent the dispensing of prescriptions for morphia injections or powders which do not bear the signature of a physician and a date recent to that on which they are presented to the chemist. In the course of the discussion which followed, Dr. Dudley Buxton said he would go further than Dr. Jones, and say that no chemist should dispense morphia or any other poison a second time from the same prescription unless initialled each time by the prescriber, nor should a medical man delegate to any other hands the administration hypodermically of such a potent drug. We believe these suggestions are well-intentioned; but have Dr. Jones and Dr. Buxton given a thought to the immense inconvenience which would follow the application of such a law?

MARSHMALLOW AS A DRINK.

"A Physician" communicates a paper to one of the mineral-water monthlies on "a novel aerated beverage for winter supply." Marshmallow is the thing he aims to get into the form of a drink. We are not sure how far we can go with his paper, for it is headed "Specially contributed. Rights reserved." There is no right in marshmallow that we

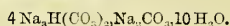
are aware of, and little good in it of a therapeutic nature—especially following “A Physician’s” advice, which is to make a syrup with essence of marshmallow. The drug is not one at all likely to be represented in an essence, since any efficacy which it may have is due to its richly mucilaginous nature. Of course, in any case an effervescing drink is not a thing that is liable to do a cough much good, so those who have the mind to make “Bronchial Cough-water,” “Althea” or “Guimauve” can do no harm by using a marshmallow essence.

THE GERMAN EAST-AFRICAN SODA-DEPOSITS.

Apotheker Hermann Peters, of Nuremberg, contributes to the *Pharmaceutische Zeitung* an interesting article on the soda-deposits of German East Africa, which were first explored and accurately described by the author’s brother, the well-known Dr. Carl Peters, now German Imperial Commissary in East Africa. Mr. Peters calls attention to the statement in Pliny (Book xxxvi., ch. 65) that the Phœnicians obtained the saltpetre which they used in their glass-manufacture from the land of Ophir. The identity of the classical Ophir with Central East Africa has been much discussed of late years, and Mr. Peters’s statement may be regarded as so much additional evidence in favour of the contention that “Ophir” actually covered some portion of the East African Hinterland. In several parts of German East Africa there are huge deposits of natural carbonate of sodium, the product of which is an important trading-article in those parts, especially in Masai-land. The commercial salt is nearly all dug out at the western side of Mount Kilima-Njaro, where there is a sodium-lake about $12\frac{1}{2}$ miles long by $2\frac{1}{2}$ miles wide. The water of this lake is soft, of a reddish-yellow colour, and has a temperature of about 50° C. The shores are covered with a salt-crust and abound in hot alkaline springs. According to Mr. Peters, the German colonial carbonate of sodium is quite free from sulphuric acid and contains only traces of chlorine and iron. An analysis of the samples by Professor Kümmerer gave the following results:—

		Actually present	Tested for
Na ₂ O	.. ..	41.36	41.51
H ₂ O	.. ..	26.74	27.62
CO ₂	.. ..	37.93	37.89
		100.93	100.02

From this analysis Professor Kümmerer calculates the formula of the natural salt as:—



At present the deposits are exploited by the natives only, which causes the brothers Peters to sigh for the realisation of the projected railway through German East Africa from the coast to the Victoria Nyanza, which would make the deposits available for the German glass and soap industry.

METRIC v. “ENGLISH” WEIGHTS.

While the London wholesale drug-houses have been troubled by official narrow-mindedness in regard to metric weights, certain patriotic German drug firms call for the prohibition of the sale in Germany of foreign goods by English weight. It appears that it is customary in Germany to sell extract of meat, maizena, “mondamin” (which, judging by the name, is an American corn-flour preparation), vaseline, and other articles produced in Britain or the United States or specially associated with those countries, in parcels of 1 lb. English, or fractions thereof. For certain inscrutable reasons this method is objectionable to some German wholesale houses who handle these goods, and they therefore suggest that it shall be made illegal to sell goods in Germany excepting by “German weights,” by which, we suppose, the metric system is to be understood, for even the most ingrained

German patriot would hardly suggest a return to the weights and measures of the old German Confederation days. We are sorry to notice that a scientific journal like the *Pharmaceutische Centralhalle* suggests this retrograde proposition, on the ground that large quantities of German goods are sent abroad in packets weighed on the English system. That is done, not because English law demands it, but because that mode of packing is considered most suitable by the exporters. It appears that, as the German law stands now, the sale of goods in packages weighed on the English system is already illegal, unless the packages themselves are imported from abroad. Thus the proprietors of vaseline are not legally entitled to import their article in hulk and put it up by English weight in Germany, but the law’s executors appear to turn a blind eye upon that transaction.

The British Pharmacopœia.

AT the meeting of the General Medical Council on Thursday afternoon, Sir Richard Quain, Bart., M.D., moved the adoption of the Pharmacopœia Committee’s report, whereupon Dr. Heron Watson asked whether the Council might expect a supplementary report from the committee in respect of the payment of the balance of 1,250*l.* to Prof. Attfield. He recalled that while it had been agreed to pay 300*l.* at once, the question of paying the balance was referred back to the committee for further report. This led him to ask when this report would be forthcoming.

The President said they had proceeded on the precedents of former years. It had been customary to hand over a sum of money to the committee to expend as they judged fit, and he appealed to the Council to have sufficient confidence in the committee to continue to adopt this course. If the Council undertook to adjudicate on the remuneration to be paid to Professor Attfield, the Council would have to do the same in respect of the remuneration of every person employed in the work. It was impossible to settle beforehand the amounts to be paid, because no one could say what would be the amount of work to be done. He mentioned incidentally that a large sum would have to be paid to the Pharmaceutical Society for work done in connection with the forthcoming edition of the Pharmacopœia. The amount must, however, be left to the committee.

Dr. Heron Watson said he had no intention of criticising the amount to be paid to Professor Attfield, nor did he wish to infer any want of confidence in the committee. As, however, the matter had been recommitted, he urged, as a point of order, that a supplementary report should be forthcoming.

After some further discussion Dr. Bruce consented to take upon himself to propose the adoption of the report, and that was agreed to *nem. con.*

A WAX is obtained in manufacturing paper from cotton and linen fibre which, according to Clayton Beadle, is produced in sufficient quantity to make it a probable commercial substance.

LOSS OF AN APOLLINARIS VESSEL.—A letter has been found in a bottle picked up on the shore at Dunkirk indicating that the *Cynthia*, of Harwich, registered 74 tons, which left London about May 12 or 13, bound for the Rhine, with a cargo of empty bottles for the Apollinaris Company, was sinking. This vessel was performing her fiftieth voyage for the Apollinaris Company (Limited), for whom she has carried nearly six million bottles of Apollinaris Natural Mineral Water from Remagen on the Rhine to the company’s London Wharf on the Thames. The *Cynthia* was one of a fleet of sailing-barges continuously engaged by the Apollinaris Company (Limited). The company occasionally loads these vessels with a cargo of empty bottles on the return journey from London to Remagen on the Rhine, and it was on one of these return voyages that the unfortunate *Cynthia* was lost.

Constructive Criticism of the British Pharmacopœia.

XII. — SYRUPS.

By W. A. H. NAYLOR, F.I.C., F.C.S.

THE syrups constitute a not unimportant class of pharmaceutical galenicals, and serve as a vehicle for the administration of certain chemicals and crude vegetable principles in an agreeable form, while at the same time their basic ingredient, sugar, acts in the majority of instances as a preservative.

As a general remark, it may be observed that the specific gravities of the syrups of the Pharmacopœia are unnecessarily high. The tendency of *syrupus* in cold weather and in the more northerly counties is for a portion of the sugar to crystallise out. Its density might be reduced, without any corresponding disadvantage, to 1320. Its use in the preparation of the syrups of orange, chloral, and ginger need not prove an obstacle to diminishing its density. At any rate, it would be possible to foreclose the objection by directing sugar and distilled water to be taken in proportions suited to each case.

The old theory that the stability of syrup of iodide of iron was proportionate to the amount of sugar it contained needs for its establishment, despite all that has been written on the subject, more direct and convincing evidence than has yet been adduced. My experience is to the effect that this syrup, when of sp. gr. 1.360, will retain its characteristic properties quite as long as the official syrup. There is reason to believe that the discoloration which takes place after prolonged storage of the syrup is due to the formation of hydriodic acid. As the syrup from different commercial sources is not unfrequently found to be deficient in its main ingredient—a fact doubtless due to defective manipulation—I would suggest that, in addition to a statement of its strength, there should also be appended a process for the determination of its iodide of iron.

It would probably be difficult to find a practical pharmacist who would support, without qualification, the present formula for syrup of phosphate of iron. It is admittedly too acid. Wright's recommendation as to the proportion of free* acid in the syrup is, in my judgment, worthy of official adoption.

On the small scale, it will be found more convenient to produce the ferrous salt in solution, by direct action of the acid upon iron wire, than by the interaction of sulphate of iron and phosphate of soda. In a preparation so greedy of oxygen, a brief direction as to storage might not be inappropriate.

On what principle syrup of hemidesmus was made to contain sugar to the extent indicated by the sp. gr. 1.335 I am unable to divine. So much sugar could not seriously be intended to act as a preservative. As a flavouring-agent it is superfluously sweet.

The worst charge that can be brought against syrup of lemon, when made as the Pharmacopœia directs, is that it cannot be kept at ordinary temperatures for forty-eight hours without undergoing a perceptible change. Moreover, when the temperature falls below 50° F., a considerable separation of sugar takes place. This is one more instance

of too high a specific gravity. The difficulty in making this syrup so that it shall be fairly stable has proved to be such that I have met with one make in which lime-juice, wholly or in part, had been substituted for lemon. Be it observed, however, that when freshly made and the gravity reduced, by using proportionately less sugar, to 1320-25, it is an elegant syrup with a fine aroma of lemon. As an article of every-day demand in many pharmacies a more stable preparation is required.

If, by following the usual pharmaceutical mode of procedure—that of preparing the syrup direct from the fruit—a reasonably satisfactory product is not obtainable, and if a syrup can be made which will have the qualities and properties of the official article, even if its production involves a departure from orthodox lines, surely such a departure is justifiable. Why, then, should the framers of the next Pharmacopœia hesitate to substitute for the present formula one consisting of citric acid, tincture of lemon, sugar, and distilled water?

The syrups of mulberry and red poppy call for no unfavourable comments. I am unconscious of any defect in them. If stored in stoneware in a cool place, and in not too large a bulk, they will neither ferment nor deposit. The remarks as to storage apply also to the syrups of rhubarb, senna, and poppy.

The loss of spirit by evaporation of the percolate in syrup of rhubarb is undesirable, as its retention to a given extent would be advantageous. An improved product would be obtained by using the present formula, but following the directions as to maceration, expression, and filtration of expressed liquors (the filtrate in this case to measure 14 fluid ounces) given in elixir rhei, B.P.C. Unofficial Formulary.

The process for making syrup of senna needs amendment to obviate the two existing objections—liability through prolonged infusion to incipient fermentation, and the time expended in carrying out effectually the instruction to clarify by filtration, &c. While no charge can be laid against the activity, nor, indeed, the general characters of the syrup, yet a better-keeping product, rather more spirituous, would result by following in the wake of the directions as to maceration, expression, &c., supplied under elixir sennæ, B.P.C. Possibly the objections to which I have referred would be less pronounced when made on the small than on the large scale.

Syrup of ginger is by common consent an unsightly and inelegant preparation. It is scarcely conceivable that any valid reason could be alleged against the substitution of a soluble essence of ginger for the present strong tincture.

Syrup of squill affords another instance in which the specific gravity is too high. It would be well to reduce the proportion of sugar to the pint of vinegar of squill from 2½ lbs. to 2¼ lbs. To raise the acetum scillæ to the boiling-point and filter while hot on to the sugar, as directed by the Pharmacopœia of the United States, will yield a brighter and more stable product than would be obtained by following the directions of the British Pharmacopœia.

Literary Notes.

JEAN JACQUES ROUSSEAU'S *Herbal*, forming fifteen quarto volumes, and containing about 1,500 plates, will be sold by auction shortly at Orleans. After Rousseau's death it was given to his doctor by Thérèse Levasseur.

MR. EFFINGHAM WILSON has lately published a new edition of his compendious Handy-hook on the Law of Bills, Cheques, Notes, and I.O.U.'s (1s. 6d.). The author is James Walter Smith, LL.D., barrister, and the work has been entirely re-written. It is a most useful treatise for men of business.

The Elements of Health: an Introduction to the Study of Hygiene, by Louis C. Parkes, M.D., D.P.H. (Churchill, 3s. 6d.), deals with water, domestic refuse, air and ventilation, warming, house construction and situation, food, physical exercise, and clothing. It is well written, and very usefully illustrated. The worst of it is that it convinces us that, however careful we may be, however much money we may spend on perfect sanitary arrangements, we can hardly hope to be perfect, and one little omission may let in the deadly microbe, which will undermine all the rest of our caution.

Science Progress still keeps on its dry path. The fact that it has reached No. 15 shows, however, that it has found a *clientèle*. This can only be due to the excellence of the papers it contains. To the present issue, Dr. Buckmaster, of St. George's Hospital, contributes an article on the antitoxins of diphtheria; and Mr. J. W. Rodger, A.R.C.S., commences a record of progress in physical chemistry during 1894. Nearly all the rest of the contents is caviare to the vulgar chemist.

MR. HARRY ROSE, L.D.S., of the National Dental Hospital, has written an excellent hook on *Vulcanite Work*, which we commend to all who are connected with mechanical dentistry. From the educational point of view the book gives good teaching; from the mechanical it is precise; and it is quite up to date in every respect. We commend it equally to those who are experienced and those who wish to learn. It is published by J. P. Segg & Co. at 2s. 6d.

ANOTHER new elementary hook on organic chemistry. This time by Mr. R. Lloyd Whiteley, F.I.C., F.C.S., and it is so well done and so cheap (Longmans, 3s. 6d.) that we commend it to students of pharmacy. The hook is confined to fatty compounds, and when we call it elementary we mean that it begins at the beginning and explains everything. It is also practical, the descriptions of methods being explicit, and the examples of calculations good. The hook, in short, teaches the student the chemistry of the fatty compounds; and we hope also that it will teach high-falutin people to drop such little affectations as placing "corr." after temperatures.

AN extremely valuable hook on chemical mechanics recently published is *Die maschinellen Hilfsmittel der chemischen Technik*, by Mr. A. Parnicke, engineer of the Griesheim Chemical-works. The earlier chapters of the book deal with those mechanical arrangements, boilers and engines common to all factories, but including special apparatus and arrangements adapted for chemical industry. Chapters are then devoted to (iv.) crushing and grinding, (v.) mixing, (vi.) fusing and solution, (vii.) concentration, (viii.) extraction (sifting, expression, filtration, and centrifugal machines, percolators, steam-pans, and stills), (ix.) drying-arrangements, (x.) all kinds of measuring-apparatus, and (xi.) laws and regulations which govern the use of steam-power in Germany. From this brief summary of the contents it will be seen that the book is one which will be useful to all who have the control of pharmaceutical laboratories and chemical factories. It

contains illustrations of 337 distinct machines, with a description of the applications and utility of each. We hope some publisher will arrange for an English version of the hook, so as to make it more widely available than it can be in German. The publisher is H. Bechold, Frankfurt.

THE *Medical Annual*, published by Messrs Wright & Co. of Bristol, continues to grow in value year by year. We may recall the fact that a dictionary of new remedies and one on new treatment are placed in the forefront, and these admirably summarise the literature of the year, presenting fully and succinctly the progress in therapeutics. We would call the attention of the editors, however, to a slight tendency to repetition of formulae. We admit that there is nothing more difficult than to prevent this, for formulae go round the world's Press in a most erratic manner, and come back to their original sources sometimes so changed in appearance that they have all the air of newness about them. Still, the *Annual* shows some evidence of want of care in this matter, and it is possible for it to improve. The New Treatment Section is that which appeals most strongly to medical practitioners. It consists largely of monographs by specialists, and is well illustrated by engravings. The moderate price of the *Annual* (7s. 6d.) has not been altered, although the cost of production, in consequence of increased hulk and improved contributions, must have been much enhanced.

MR. M. M. PATTISON MUIR has written a small book on *Qualitative Chemical Analysis* (Longmans, Green & Co., 1s. 6d.), which is scarcely worthy of him. It professes to be "tables and directions," but there is little of the tabular form in it. Mr. Muir gives some exceedingly good separation methods, but our objection to the hook is twofold—first, the absence of dry reactions as a distinct factor in qualitative analysis; second, the general inappreciation of physical features. The omission of dry reactions is apparently intentional; it is almost wicked, for how much time would be lost to the world if all chemical students had to work on Mr. Muir's plan! If by heating a dry salt they find it to be entirely volatile they know at once that certain things cannot be present, and others may be. Why go a long and wet journey to demonstrate the absence of the absentees? We may illustrate our second objection by Group II. Surely the yellow sulphides and black give sharply-defined groups, and if the student find his H_2S precipitate to be yellow it is a pure waste of his time to make him hunt for Hg, Bi, &c. These are our principal objections to the hook, but we have others. For example, Na_2CO_3 , directed on the first page in treatment for acids, might be taken to show the presence or absence of all bases except Am, K, and Na. Then the methods are a bit slow—almost an hour is devoted to treating the HCl solution of the substance with H_2S , obviously an impossibility for the majority of students of chemistry.

THE reviewer of chemical literature feels that he has the right to growl at the ever-flowing stream of elementary manuals which passes his vision. It seldom happens that there is much evidence of individuality in any of them; each new one is very like its predecessors, is mostly made up of the same old methods, and appeals to the same class, junior students of chemistry. One has no moral right to object to the appearance of such new books. We are a free community, and it is, in the abstract, a good thing that a man should write a book. But why should so many teachers and professors write these elementary manuals? This is the problem which we cannot solve. It cannot be for profit, because 1,000 copies of a 2s. book cannot yield the author more than 20% of profit, and he is more likely to lose as much by it. It cannot be fame, for those of the authors who already have that frequently lose *kudos* by their trifling manuals, and those of the other class generally sink into deeper obscurity. Is it possible that Professor Tom writes his hook because he would rather not see his pupils use Doctor Harry's manual? Whatever the origin of this peculiar mania may be, it is at least a symptom of modern chemistry worth thinking over. We know why medical doctors write hooks, and they don't all write on the same subjects. It is because most chemical doctors do, that we have been moved to these reflections.

Chemists' Conundrums.

WE have had for a long time the remainder of our conundrum competition in type, and have not been able to find room for it all the winter. We are compelled now to close it with a selection only from the large number of conundrums sent in and still unpublished.

Why is infusion couso like the quality of mercy?—Because it is not strained.—H. Preston.

Why will chemistry always remain an unfathomable science?—Because it will always end in 'mistry (mystery).—W. G. Stevens.

What is the best name for a lady pharmacist?—Anne Eliza (Analyser).—Joseph Edmondson.

Why is an officer dismissed the army in disgrace like an adulterated sample of cinnamon?—Because he has been cassia'd (cashiered).—T. Bennett Brittan.

How does the Queen take her pills?—Inside her (in cider).—G. Stuart Jones.

Which is the cheapest way of buying a fiddle?—Buy two pennyworth of medicine, and you get a vial in (violin).—G. Stuart Jones.

Why is a chemist with a cough like a porcupine on the warpath?—Because he looks to his (s)quills for relief.—T. B. Brittan.

Why is a policeman knocked down by a thief like the action of grape sugar on Fehling's solution?—Because it is a copper precipitate.—J. R. Cave.

What official article is the most objectionable?—An egg, because it is a fowl (fou) production.—James Thomas.

Why should the B.P. preparations of squills be placed under restraint?—Because they are all more or less silly (scillæ).—F. Endle.

Why is a chilli like a furnace being stoked?—Because it is hot and yet it is cold (coaled).—T. Bennett Brittan.

What saline is like a nearly burnt-out lamp?—The Lamp-lough (lamp low).—Die Lunæ.

Why is a chemist at dinner like a hydraulic lift?—Because it is "up and down" every minute.—Die Lunæ.

When does a farm-labourer resemble a lodging-house keeper?—When he demands a nitrate (night-rate).—Reltub.

Which drug can be called most foolish?—Scillæ tincture.—Reltub.

What mood in grammar is quassia?—Subjunctive; it is wood, or should be.—C. F. Smart.

What is the nastiest preserve in a chemist's shop?—Rad. sarsæ Jam.—C. F. Smart.

Why is a chemist a funny fellow?—Because he generally keeps his "tow" in a drawer.—C. F. Smart.

Why does a black draught taste nasty?—Because it is sent out in a vial bottle.—C. F. Smart.

What members of an ancient race are found in a chemist's shop?—The Spanish juice.—C. F. Smart.

What enterprising drug-firm would the motto on a triumphant arch erected in honour of royalty remind you of?—Burroughs, Wellcome (Borough's welcome).—J. A.

What is the difference between a grocer selling a pound of sugar and the chemist with a pestle and mortar?—One weighs a pound, the other pounds away.—J. A.

If a chemist should elope with a Scotch girl, what botanical order would it remind you of?—*Caryophyllaceæ* (carry off a lassie).—J. A.

Why is the pharmacopœial produce of the *Gallus banckiva* (var. *domesticus*) like unto a mare?—Because the first is an E.G.G., and the other is a she G.G.—Philip Arblaster.

What seascape would a druggist be most likely to admire?—A bark stealing through the nightshade with a Stockholm tar at the (h)elm stearin to arbor over the foamine waves.—William Rogers.

What is the difference between influenza and a Homeric effusion on a powder-paper?—One is an epidemic and the other is a demy-epic.—Kate.

One hundred begins it, a beverage ends it,
One thousand in the middle may be seen;
Our friend is in the middle, the beginning, and the end,
And he is always in the spaces between.

—Chemist.—T. H. Edgar.

What is the difference between cold-cream and a coquette?—One keeps off the chaps and the other attracts them.—T. H. Edgar.

What drugs were plentiful on the field of Waterloo?—Bruised Gauls (galls).—W. Dodd.

Why is the water round the coast of Flintshire like THE CHEMIST AND DRUGGIST journal?—Because it's the sea and Dee (*C. & D.*).—Permang.

Why is a baby when cutting its ivories like a cup?—Because it's a teething (tea thing).—H. Eley.

What kind of bottles are calculated to cause the modern pharmacist most annoyance?—Green dispensing flats.—R. Tice.

When would foul play at football be considered to resemble ground ginger?—When it's a stomachic (stomach kick).—R. Tice.

What drug would the bad boy try to avoid?—Mastic (Ma's stick).—R. Tice.

What is the difference between a spinster and the Winter Issue of THE CHEMIST AND DRUGGIST?—The first you must miss, but the latter "Don't miss it."—R. E. B.

What drug has only one letter in its name?—Aloes (all o's).—Bovril.

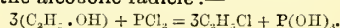
Why does the inner part of the stem of cort. cinch. rub. resemble a little dog's tail?—Because it is farthest from the bark.—F. W. Robinson.

What is the difference between the fresh leaves of fol. digitalis and a honeymoon?—The one contains many cells, and the other one great sell.—E. Robinson.

PRIZE CONUNDRUMS.

It has been a painful task to go through all the hundreds of word-tortures received in this competition, including a large number not published, with the object of selecting the best, or the least bad. We have done it, however, conscientiously, and have picked out the following dozen. We do not trust our critical faculty in the conundrum line sufficiently to venture on any classification of these, so simply award 5s. to each competitor in the subjoined list. We ask the prize-winners to send us postcards giving their exact addresses, and remittances shall follow.

Why is phosphorus chloride like a Conservative candidate who beats a drunken opponent?—Because it is capable of turning out the alcoholic radicle:—



Alcoholic radicle

—E. J. Parry.

What is a good temperance motto for a chemist?—Liquorice a couso lettuce saccharum (liquor is a cus, so let us suck rum).—M. S. Lalor.

When would a lion behave towards his mate so as to remind you of a gentleman taking a cough-remedy?—When he takes an elixir (and he licks her).—W. Thirlby.

Why is a good chemist like a stoic?—Because he can dispense with ease.—Richard Griffith.

Why might a chemist refuse to supply a young lady, after ringing the night-bell for some rouge?—Because he would not have enough in stock to cover her cheek.—Alfred J. Barnes.

What is good for a cold and bad for the brain?—Liquorice (liquor is)—Edward B. Place.

Why is a chemist like a lost key?—Because he is a che-mist (key missed).—W. Cowdery.

What mood in grammar is quassia?—Subjunctive; it is wood, or should be.—C. F. Smart.

If a chemist should elope with a Scotch girl, what botanical order would it remind you of?—*Caryophyllaceæ* (carry off a lassie).—J. A.

Why is a policeman knocked down by a thief like the action of grape sugar on Fehling's solution?—Because it is a copper precipitate.—J. R. Cave.

What drugs were plentiful on the field of Waterloo?—Bruised Gauls.—W. Dodd.

What is the difference between influenza and a Homeric effusion on a powder-paper?—One is an epidemic and the other is a demy-epic.—Kate.

Suburban Pharmacy.

By A SUBURBIAN.

NOT the least interesting feature of THE CHEMIST AND DRUGGIST is the occasional description of the conditions under which the practice of pharmacy is conducted in distant corners of the world. The stories of the deeds of valiant knights of the pestle under brighter skies are instructive as well as interesting. Much rarer is it for a home-bird to describe his own nest, probably because he feels that there is nothing clamouring for comment in his surroundings, and his modesty shrinks from the repetition of commonplace. Nevertheless, just as the eyes of purely dispensing chemists were opened by "Jason's" account of a day's work in a Northern manufacturing town, and their mental horizons widened by "Welsh Chemist's" sample of a few hours' prescribing in the principality, so it may be that a point or two of general interest may be found in suburban and urban, as well as turban and rural, pharmacy.

The suburbs are the home of the greater moralities and the lesser economies. When the resident wishes to ignore these potent factors in suburban life, it is necessary to leave the sacred groves of home if he or she would maintain a semblance of respectability. A first-class return to the nearest town terminus will provide the atmosphere in which the first may be defied; while the latter may be ignored by hiring a brougham to drive to the stores to effect a saving of threepence on the advertised price of a box of proprietary pills. The same pills may be bought at the same price nearer home, but disbelief in the cheapness of the stores is a venial sin in suburban philosophical codes. Superstition dies hard, and the suburban matron knows, and at great personal inconvenience must do, her duty to her husband's purse. At the family dinner-table she swells with conscious virtue at the thought of her self-renunciation of the afternoons. Of course, there are local cutters with whom the better-class suburban chemist must contend, and there are suburban busybodies who perpetually trot up and down the nearest High Street looking out for a new drug-store—not without success; but his serious enemy is not the local huckster, but the large town store with its dainty tea-table and bazaar-like atmosphere.

In the economy of the suburbs are many commandments, and these are rigorously enforced by the local conservator of the local conscience. If the vicar, the referee whose autocratic dictum excommunicates from the places where "nice" people congregate, suggests that the store in which he holds shares is an excellent place at which to shop, the suburban resident must look to it that she neglect not this means of her social salvation.

Nor from what is called in after-dinner speeches "the sister profession" can the pharmacist expect much help. Suburban doctors are frequently general practitioners of an average type. They have a good deal of spare time on their hands, because all the best work goes to town specialists,

and they are glad to appear to consult the interests of their patients by pretending to protect their pockets. So they throw in a bottle of medicine with their visit, much as an enterprising grocer gives a brandy-ball to the child whose mother has just bought a pound of tea. Of course, many advantages, to the doctor, are gained by this businesslike method of conducting a profession. The patient, when he falls ill again, has no prescription to fly to, but must once more call in his worthy medical man, and the advantages of writing the death-certificate, after supplying laudanum in mistake for black draught, are obvious enough. Again, the patient is probably better treated, because the doctor can concentrate all his attention on looking omniscient, instead of letting his vital force dribble off into such channels as wondering what on earth to give his patient, and in what dose to give it. He has time to get home and read up his text-books and find out what is the proper course to follow. After careful deliberation the least inappropriate of his half-dozen stock mixtures may be selected, or there may be time even to write to the medical column of the *Echo* for information as to the best thing to do. The world is full of disappointments, and should his patient fail to recover under this treatment, he can tell the sufferer that he is going to prescribe something quite new, and write a prescription. When the patient still refuses to get better, the blame can be laid on the inferiority of the chemist's drugs, or, as a last resource, a specialist can be called in to find out what is really the matter with the patient.

The suburban chemist lacks the large life of his urban brother. He does not come into such intimate touch with the great throbbing heart of the city; but he has compensations to atone for his inability to observe the great spectacle of life. He has purer air, greener streets, shorter hours, a less strenuous life, and the pleasures of a garden. If trade comes not he can seek inspiration for his next counter-bill among his cabbages, or call round to beg a standard rose-cutting from his good friend the enemy. This interchange of courtesies between rival pharmacists strikes the keener competitor of the town as very like playing at shops. As a matter of fact, it is nothing of the kind. Each man has his own little district and his own little connection, and a great deal of mutual loyalty is fostered by the necessity for combination against the inroads of the cutter. Obviously the proper course to pursue, when the latter puts in an appearance, is an extreme one. When in doubt as to whether to compete with a store chemist or shoot yourself, don't hesitate—shoot him!

POLLY AND JOHNNIE.—One of the reasons for the popularity of Apollinaris water mentioned the other day at a "meeting of the waters" was that men generally soon became on such intimate terms with this water-nymph as to be able to speak of her familiarly as "Polly." "Whisky and Polly" seemed to go so well together as to be suggestive of a round dance, in which the admirer of "Polly" was whisky-ing her round the ball-room. The gradual rise of Johannis in public opinion, delayed, of course, in the first place, by politeness on the part of "Johnnie," who must cede the *pas* to "Polly," is due to the fact that the aerated-water drinkers had not made up their minds as to whether Johannis was to be addressed as "Jo" or "Johnnie." We believe that "Johnnie" is now the accepted appellation. Whether "Johnnie" and "Polly" are on the best terms, this deponent knoweth not; nor is he aware that during the season the Bishop of Bath and Wells or the Bishop of Sodor-and-Man will bless the union of "Johnnie" and "Polly," though at one time there was a report to that effect. To alter the title of the old semi-nautical drama, "Poll and Partner Joe," of which the second hero was a Water-man, "Poll and her Partner Johnnie" ought to get on well together.—*Punch*.

Pharmacy in Western Australia.

A MELBOURNE PHARMACIST WHO TRIED HIS LUCK IN THE NEW GOLD LAND FINDS IT A ONE-EYED SECTION, WHERE DUST AND DOCTORS ARE TOO PREVALENT TO GIVE THE CHEMIST A CHANCE OF EARNING A DECENT LIVING.

MR. H. J. K. FITZPATRICK, a Melbourne chemist, has returned from a trial trip to Western Australia a sadder and a wiser man. From an article contributed by him to *The Chemist and Druggist of Australasia*, we take the following particulars:—

Albany, the first West Australian port touched by the Melbourne steamer, is rather ancient in appearance, and excessively dull. There is only one chemist in business there, and, considering the small population, I think he has plenty of time on his hands to spare after supplying the wants of the place. There is a great deal of rivalry between Albany and Perth, the latter place being jealous because the former possesses the port where mail boats are bound to call. Albany, indeed, depends on the mail boats for most of its business.

Our next call was at the little place of Bunbury, one of the few good towns in the colony. It is the centre of an agricultural district, and the export of the famous jarrah timber is an industry of no mean importance. Bunbury and district support two chemists, one of the shops being owned by a local doctor and run by a manager. The run from Bunbury to Fremantle brings the water journey to an end.

Fremantle possesses chemists sufficient to supply twice the present population. There are several nicely-fitted establishments, and one combines a library and book-store with a pharmacy. Journeying from Fremantle to Perth is a little over half-an-hour's railway ride. The city of the Swan appears calm and at rest. The most abundant of all its natural productions is to be found on all sides—i.e., dust—dust—dust.

Most of the chemists' shops are the remains of ancient days, and make no attempt to display or attract. Were it not for the inevitable show-bottles and the coloured lamp, one would pass many without noticing them. One of the finest shops is that managed by Mr. R. C. Armstrong, formerly of Wilcannia and Broken Hill. This shop seems far in advance of the place, the time, and the people. The next establishment of importance is that of Edmund Dean & Co., mainly run by medical men. Here a very large dispensing business is done, but the fittings of the shop and the arrangements inside are not of great beauty. This establishment carries a large stock, and has several branches in the town, and one at the port of Fremantle. The other establishments are on less pretentious lines, but no doubt meet the town requirements.

Perth, of all places I know, is the worst for the chemist to work in and compete with the doctors. If the doctor does not own, or partly own, the place where his prescriptions are dispensed, he receives a premium up to 25 per cent. for sending his work to the chemist. To such an extent do the doctors harass the chemist and batten on him that the latter considers it an advantage to steer clear of all medical men, and trust to Providence for any work to come from them. I was informed by several that they could have a number of doctors to consult at their shops, on the understanding that they would pay premiums—but this they would not do. They would have to pay the doctor a commission on his prescriptions, and to leave off counter-prescribing, and that would not pay.

Wages for assistants are smaller in Westralia than in the other colonies. Even at Coolgardie, where one has to contend against every disadvantage, with few of the advantages and absolute comforts of life, the wages paid to a manager rarely exceed 4*l.* a week, and this is considered a large salary.

At present the colony is having a boom. The gold discoveries are bringing the country before the world, and it will not be for the want, or fear, of exaggerating the country's claims, if for a while the place should go ahead. At present it is sailing pleasantly along, but there is a day of

reckoning not far distant. The country is one vast Sahara, the natural resources few, and hard to work. At present all thoughts turn to the gold discoveries, and the development of the country is a secondary consideration. The population going out West are not making their homes there; they are leaving them in the other colonies, and intend to return if successful in their search for the hidden treasure. Most of the currency circulating in the country is brought from the other side. On the field every little want is supplied, and one requires large capital to go into business there with any prospect of success. In the wholesale line, the Sydney Australian Drug Company is represented; Faulding & Co., of Adelaide, are launching out in good style; and Felton, Grimwade & Co., if I am not mistaken, also have an agency there. West Australia, in short, offers less inducements for chemists, or even assistants, than any of the settled colonies. The hours are long; the salaries, especially for assistants, small. The medical men hold the better end of the stick, and they are no mean power to contend against.

A Pharmacy Act has been passed in both Houses of Parliament, and comes into operation on March 1. To be qualified for registration under this Act one must have been in business as a chemist and druggist for a term of six months before the passing of the Act. There appears to be no provision for reciprocity with the other colonies. A Dentistry Act has also been recently passed, and all the chemists availed themselves of the opportunity of being registered as surgeon dentists. The Pharmacy Act will interfere with several chemists who are not registered and have not been in business the requisite period.

"C. & D." Recipes.

Contributed by subscribers. Well-tried recipes are always acceptable.

TOOTH-PASTE.

Pulv. pumicis	3j.
Pulv. iridis	3iv.
Pulv. saponis	3ss.
Pulv. tragacanth.	3j. gr. x.
Crete præcip.	3viii.
Liq. potassæ	℥ 80.
Glycerini	3viii.
Ol. caryophylle	℥ xx.
Otto rose	℥ xv.
Ol. rose geranii	℥ xv.

M.S.A.

TOOTHACHE BALL AND STOPPING.

Resin. flav.	3j. 3vj.
Gum. juniper.	3i. 3vj.
S.V.R.	3i.
Spt. ætheris	3vj.
Acid. carbol.	3j.

ORCHID. (38/20).

FOR TOOTHACHE.

Tannin.	40 grs.
Cresoti	gtt. 15
Æther. sulph.	3j.

M.

FRENCH POLISH.

Gum. benzoin.	6 oz.
Gum. shellac.	2 lbs.
Resin. nig.	2 oz.
Spirit	Coug. j.

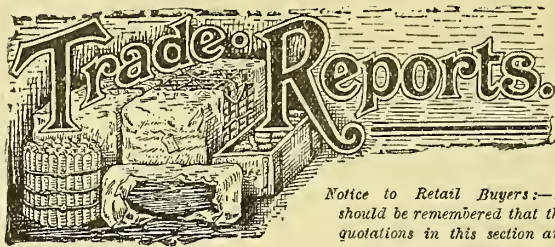
PILLS FOR MANGE IN DOGS.

Arsenic.	gr. j.
Ferri sulphat.	3i.
Ext. gentian.	3iss.

M.

Div. in xxiv. pills.

PICRATE.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large

quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., June 6.

THE holiday-time is still making its influence felt in the wholesale drug-market, transactions this week having been upon a somewhat small scale, while the price-fluctuations, with a very few exceptions, are unimportant. No auctions of any interest were held until to-day, when a large supply of varnish gums was offered in public sale. *Korrie gum* sold generally lower, *Damar* was easy, and fine *Animi gum* realised high prices. The principal alterations in the drug-market may be summed up as follows:—*Crude camphor* is again dearer, business having been done to-day at an advance of 10s. per cwt. upon the quotation before the holidays. For *Balsam Tolu* more money is required. *Insect flowers* and *Orris* are tending higher, and *Cod-liver oil* is very firmly held. *English lavender oil* is still tending upwards, and *French Oil of lavender*, as well as of *Pennyroyal*, is likely to be dearer. *Druggists' opium* continues to decline, but the *Persian variety*, on the other hand, is exceedingly firm. Fine *Scammony resin* is very scarce and advancing. The *Otto-of-rose* crop appears to promise fairly well. *Oil of star-anise* is a little easier, *menthol* may be had at lower rates, and some of the dealers in *saffron* have reduced their quotations. In fine chemicals there have been price-reductions in *morphia* and *cocaine*. *Quinine* keeps very firm, and so does *caffeine*, for which exceedingly high prices have been paid on the spot. The position of the *iodine* ring seems much shaken, and a heavy slump in this important article is thought to be probable. *Chlorate of potash* is higher, *carbolic acid* very firm. The increase in the price of *potato-spirit* has brought an advance in the quotation of *sulphuric ether*, and may, if it continues, affect many other articles. *Tartaric* and *citric acids* are firm. *Heavy chemicals* show very little alteration. *Spices* are irregular: *black pepper* and *Zanzibar cloves* being lower, *cassia lignea* dearer, and *nutmegs* very firm. *Shellac* is advancing, *Japan wax* shows a somewhat better feeling, but in *turmeric* the tone is rather easier. *Petroleum* is weak, *cottonseed oil* easier, *turpentine* and *linseed oil* steadier. The Bank-rate still keeps at 2 per cent.; and bar-silver stands at 30½d. per oz. to-day.

The Amsterdam Cinchona-market.

Our Amsterdam correspondent, telegraphing on Wednesday night, observes:—"The exports of cinchona bark from Java in the month of May amounted to 402,700 half-kilos. In April they were 615,000 half-kilos. On June 13, 5,691 bales and 239 cases (weighing together 539,230 kilos.) of Java cinchona bark will be offered by auction in Amsterdam.

The total equivalent of sulphate of quinine in the manufacturing bark is 26,273 kilos., in the pharmaceutical bark 372 kil[os]. This gives an average of 5 per cent. for the manufacturing bark. The May shipments from Java, continues our correspondent, give a moderate figure, and the feeling here is that the total shipments for 1895 will show a smaller figure than for the preceding year; thus far the deficiency is in fact rather marked. The feeling for our bark-sale of 13th inst. is rather firm than otherwise, in spite of the heavy supply of bark. The diminished stock of quinine in London is also considered a favourable feature of the position of the two articles, and likely to work well for bark in a short time.

The Liverpool Drug market.

Our Liverpool correspondent, writing on the 5th inst., says that in consequence of the Whitsuntide Holidays business has been somewhat restricted in all directions. In *Gum Acacia* the demand remains very stagnant; the inquiries this week have been very limited, and thus far the business resulting is unimportant so far as *Soudan sorts* are concerned. About 20 packages *Brazilian* have changed hands without change in prices. *Castor oil* is unchanged at the late values, and the spot price is very firm, notwithstanding arrivals per steamship *Logician* amounting to 975 cases. *Turmeric* is steady at late prices, and no further move of importance has taken place so far. *Canary seed* has not maintained the strong position it has occupied for the past two or three weeks, and prime *Turkish* can now be bought at 47s. 6d. per qt. *Spanish* is unchanged so far. No further business has passed in *Beeswax*, but arrivals are held at very full prices, and importers are confident of their being realised. *African ginger* and *Chillies* are still in good demand and meet with ready sale—100 bags prime *African ginger* realised 23s. cwt. *Chilian anise* firmly held at 23s. cwt.

The Liverpool Oil and Chemical Trade.

There was a fair attendance in the market on the first working day after the holidays, and, although not much business has resulted, prices are generally well maintained. *Ammonia*: *Sal ammoniac* is steady, at 39s. per cwt. for best; *Sulphate* easier, at 10l. 2s. 6d. per ton, f.o.b. Liverpool. *Soda*: *Caustic* very firm and scarce, at 7l. 15s. to 8l. per ton; *Caustic ash*, 3l. 15s. per ton for 48-per-cent.; *Soda crystals* quiet, at 2l. 10s. per ton; *Bicarbonate* in fair request, at 7l. per ton; *Hyposulphite* very scarce, at 6l. 12s. 6d. per ton for 1-cwt. kegs; *Nitrate* in steady request, at 8s. 3d. per cwt. *Potash*: *Pot* and *Pearl*, no change; *Prussiate* very quiet, at 8d. per lb.; *Bichromate* remains steady, at 4½d., f.o.b.; *Chlorate* has hardened a little, the spot price being 5d. per lb. *Bleaching-powder* in more request, at 7l. 5s. per ton, f.o.b. *Sulphur* quiet, at 5l. 10s. per ton for roll, and 5l. 10s. for flour. *Copperas*, 36s. per ton. *Copper sulphate* firm, at 15l. 10s. per ton. *Phosphorus*: *Stick*, 2s. 1d. per lb. The *Oil trade* is still brisk, and more business could be done if the oil-arrivals were larger. Holders are firm in their prices. *Palm oil* is scarce, 20l. 10s. being asked for good quality. *Olive oil*: The prices quoted are 39l. 10s. for best *Naples* and 32l. per ton for *Levant* and *Spanish*. *Cottonseed oil* is well maintained at 19s. 3d. per cwt. *Linseed oil* is firm, at 21s. 6d. per cwt. *Petroleum* is quiet, but without change in prices.

The Canary-seed Syndicate.

A representative of THE CHEMIST AND DRUGGIST called to-day at the office of Mr. David Allester, the secretary of the Canary-seed Syndicate, for the purpose of obtaining some further information with regard to the operations of the organisation. He was informed that the syndicate had its origin in a meeting of persons interested in the canary-seed trade, which was held some time ago, and at which it was considered that a speculation could be successfully undertaken. The committee of five who are now controlling operations were elected at a "provisional meeting of depositors." The following are the members of the committee:—Mr. Denny, representing the home trade; Mr. Alfred Barker, representing the export trade; Mr. E. Maronsi, for the importers from Turkey, Mr. D. S. Barrero, for the importers of Spanish and Moroccan seed; and Mr. Prashkauer, for the importers of La Plata seed. The committee began operations about May 22, and have

already purchased a considerable quantity both of Turkish and Spanish seed. Our informant thought that they were still prepared to accept contributions from new depositors. Several of the committee, we were assured, are very sanguine that they will be able to corner the market and realise a profit of something like 30s. per quarter. Until last week the reports with regard to the Turkey crop, which is the principal one, were said to be very unfavourable, the plants having suffered from drought. This crop, however, is not due until September-October, and there is therefore plenty of time for the market to change its appearance.

ACACIA—*Soudan* gum is exceedingly difficult of sale, and in spite of the anxiety of most holders to come to terms no business can be reported. The nominal quotations for sorts are from 40s to 55s. per cwt. for ordinary dull hard glassy to fine soft pale gum.

ACID (CARBOLIC).—A firm market, at 1s. 10d. per gallon for 75-per-cent. *Crude*, and 1s. 7d. per gallon for 60 per-cent. *Crude*. *Cresylic*, 95-per-cent., is quoted at 10d. to 1s.; *Crystals*, 39–40° are quoted at 6½d. to 6¾d.; 34–35° at 5½d. to 5¾d. per lb.

ACID (CITRIC).—Very steady, at 1s. 1¾d. to 1s. 2d. per lb.

ACID (TARTARIC).—One of the two *English* manufacturers quotes 11d. per lb.; the price of the other is nominally 11½d., but we understand that he, under certain circumstances, might be induced to accept 11d., although he has also sold small lots at 11½d. *Foreign* tartaric acid is firm, at 10½d. to 11d. per lb.

ALCOHOL.—German potato-spirit has advanced considerably lately, partly for fiscal reasons, and partly because the output of material last year was much smaller than had been generally expected. A considerable amount of business has been done, and fine quality, which could recently be had at 7d. per gallon, is now worth 8½d. per gallon, c.i.f. terms.

AMMONIA SULPHATE.—Firm, at 9l. 17s. 6d. to 10l. for Beckton, 9l. 18s. 9d. to 10l. for Leith, and 10l. per ton for London, Hull, and Liverpool makes.

BALSAM TOLU has further advanced, 1s. 5d. per lb. being now required for good quality.

CAFFEINE.—Very scarce on the spot. Business has been done this week in small quantities, at 27s. per lb. on the spot, and we hear that one of the makers has sold at 21s. per lb. for August-September delivery. On the other hand, another manufacturer is said to be willing to accept 19s. per lb. for delivery not before end of July.

CALABAR BEANS.—The price is 2½d. per lb, but perhaps a little below that price might be accepted.

CAMPHOR (CRUDE).—No business is reported since last week, and prices are at present more or less nominal. For *Japanese* and *Formosa* camphor 160s. per cwt, c.i.f. terms, has been paid up to July shipment, but the syndicate have not purchased any other delivery later than that month. It seems, however, that some "bear" sellers are becoming alarmed and are trying to cover their sales. In fact, it is said that the syndicate brokers themselves have had an offer of 160s., c.i.f. terms, for a parcel of 1,000 piculs, which, however, they have refused. They do not seem to be inclined to part with anything below 10l. per cwt. To-day's telegraphic quotation from Japan is 170s. to 175s. c.i.f. terms for *Japanese* camphor June-August shipment. The American camphor refiners, says the *O., P., & D. Reporter*, "will not commence buying heavily of crude until September. In the meantime the London speculators may tire of carrying their load, and let the market decline to its natural level. Certain it is that refiners will only purchase crude from hand to mouth so long as high prices prevail. They are buying more or less all the time, and may find it necessary to again advance the price of refined, if the market for crude is advanced still higher." This afternoon *Formosa* camphor has been sold, both on the spot and for May-July shipment, at 170s., an advance of 10s. per cwt.

CHLORATE OF POTASH firmly held at 4¾d. per lb. f.o.b. Liverpool. According to the *O., P., & D. Reporter*, "the Japanese purchases of chlorate of potash in the European markets were practically suspended during the war, the article being considered contraband of war. Consequently

the supplies increased in manufacturers' hands, and second hands found no outlet for their holdings. Since the cessation of hostilities Japan has become an active purchaser, and sales of enormous quantities are reported from both England and Germany. The natural result has been an advance in price. Not alone have the accumulated supplies been disposed of, but sales for future delivery have been made, which will leave the manufacturers little to offer to go into regular trade channels. At the first indication of absorption of supplies, and a consequent advance in price, purchasers in America and Europe turned to Sweden as a source of supply, when it was discovered that the supply there had been taken by the Government, and the manufacturers placed under contracts which will absorb their entire production during the current year."

CINCHONA.—The exports of cinchona from Ceylon during the periods from January 1 to May 6 have been—

	1895	1894	1893	1892
Lbs. ..	276,220	327,879	1,723,379	2,136,843

COCOA BUTTER.—On June 4 about 70 tons of Van Houten's cocoa-butter were sold by auction in Amsterdam at an average price of 64 73c. per half-kilo., the lowest price realised by any lot being 64½c., the highest 65½c. The tone at the auctions was quiet.

COCAINE.—The reduction in the convention-price announced last week was followed on June 1 by another, and still more drastic, move on the part of the combined makers, the price then being reduced by 1s. 6d. per oz. at the time—viz., from 16s. to 14s. 6d. per oz. for lots of at least 100 oz., and from 16s. 6d. to 15s. per oz. for smaller quantities. The cause of these continued reductions is thought to be the determination of the combined makers to crush out an outsider in Southern Germany, who has just started cocaine-making. It was thought that the last shot would have silenced this intruder; but the contrary was the case, the "outsider" replying to the challenge by a further reduction in his quotation to 14s. for 100-oz. lots which still leaves him sixpence below the convention-price. The end of the fight will probably be the inclusion of the outsider in the syndicate, followed by a general advance in the quotations. From another quarter we hear that the object of the cocaine refiners in reducing their quotations is not, as is generally supposed, that referred to above; but that their intention is simply to secure cheaply certain parcels of raw cocaine which have just arrived.

ETHER.—In consequence of the advance in alcohol to which we refer elsewhere the price of sulphuric ether has been advanced as follows: 7½d. per lb. for 0.750, 8½d. for 0.725, 9d. for 0.720 (absolute), and 10d. for *purissimum*. Pure absolute ether for narcosis is quoted at 2s. 3d. per lb. All these prices are in bond.

GALLS.—*Chinese* galls quiet, at 55s. per cwt. on the spot.

GINGER.—The arrivals of *African* ginger in Liverpool have been rather large, but the demand has also been brisk, with sales of fair quality at 27s. 6d. per cwt. More money is now asked.

GLYCERINE.—Firmly held; best double-distilled German in bulk, s.g. 1.260, at from 50s. to 52s. per cwt.

INSECT-FLOWERS are advancing in Trieste in consequence of the heavy purchases which have lately taken place there. The current quotations are:—For closed flowers 117s. 6d., for half-closed 77s. 6d. to 85s., and for open flowers from 65s. per cwt., "c.i.f." terms, downwards.

IODINE.—There is an unsettled feeling in the iodine market. Nothing very definite seems to be known, nor is anything likely to transpire until an actual alteration in prices is officially announced, as the iodine syndicate always acts with the utmost secrecy. It is believed, however, that the supplies of iodine outside the syndicate have increased to such an extent that the syndicate have decided to take action. Unless, therefore, some arrangement can be arrived at with the outsiders, it is likely that a considerable reduction will take place before long, in which case, of course, all iodide preparations would be affected. It would seem that some notice to this effect has been sent by the syndicate to the manufacturers.

IPECACUANHA.—There has been a fair demand for *Cartagena* root, and the bulk of the recent supply bought in at

auction has since been sold at the rate of 3s. 6d. per lb. for good slightly damaged root.

JABORANDI.—The stock in London and Liverpool consists almost entirely of low-grade leaves, for which there is little, if any, demand. Fine quality, however, would realise full prices if offered.

MENTHOL keeps quiet, and may be had at 14s. 6d. per lb. on the spot, or at 14s. per lb., c.i.f. terms.

MORPHIA.—The manufacturers have again reduced their quotation for *Hydrochlorate* of morphia by 3d. per oz. this week, their price being now for 1,000-oz. lots, in bulk, 4s. per oz. for powder and 4s. 2d. per oz. for crystals. No alteration has been made in *Codeia*.

OIL (COD-LIVER).—Some of the Norwegian manufacturers have again advanced their quotations, 170s. per barrel, "c.i.f." terms, being now asked nominally for best non-congealing 1895 oil.

OILS (ESSENTIAL).—*Oil of lemon* is quoted lower in some quarters. Consequent upon the advance in *Zanzibar cloves* some of the manufacturers of *Oil of cloves* have advanced their quotations to 2s. 7d. per lb. for best English distilled, but second-hand owners find it difficult to obtain 2s. 6d. per lb. *Essential oil of almonds* (English) has been lowered to 25s. per lb., ditto, free from prussic acid, to 29s. per lb. New York advices state that American *peppermint oil* is not unlikely to show a change towards higher prices shortly. *Oil of star-anise* is slightly easier; sales were made this week at 6s. 3d. per lb. on the spot. *Cassia oil* shows a dull market, the nominal quotation being 4s. 9d. to 5s. for oil with from 80 to 85 per cent. of cinnamic aldehyde. *English oil of lavender* continues to advance. A few days ago, we hear, 85s. per lb. was paid for fine quality, and at present 90s. seems to be asked; French oil of lavender and *pennyroyal* are also expected to be much dearer, but at present the prices are not quite decided upon.

OPIUM.—Some transactions in druggists' and manufacturers' opium at rather lower prices since the holidays represent the latest movement in the drug. Soft shipping opium is also selling in a small way at unaltered rates. The following are the current quotations:—Good to fine *Soft shipping* 10s. 6d. to 11s. 6d., good to fine *Smyrna* 8s. to 9s., *Second druggists'* 7s. 6d. to 7s. 9d., and *Persian* from 12s. to 12s. 9d. per lb. The following, dated May 11, is from our Constantinople correspondent:—"Business during the past two or three weeks has been restricted to a few small purchases by German dealers and speculators. The latter have paid up to 7s. 4d. per lb., f.o.b., for ordinary *Karahissar* opium, and are buyers at the same figure for 40 to 50 cases of new *Karahissar*, delivery during September. From all parts the news of the growing plants continues very favourable, and on the strength of it an enormous yield is talked of in some quarters. We consider it highly improbable that the output will exceed 8,000 cases, and think that this could only be looked upon as the maximum yield. In any case it is not probable that prices will decline to the low parity of three years ago. Since then conditions have changed, and different influences are now at work. There is a marked improvement in business all round, and speculation has come to the fore again, so that it may reasonably be expected that opium will not be left alone, especially if between this and new crop there is a further decline of 3d. to 6d. per lb. to tempt speculators." From *Smyrna*, under date of May 24, we have the following advices:—"During the past fortnight we have had a very quiet market, but in the meantime our sellers have maintained their prices, notwithstanding the inactivity on the consuming markets and the good reports received daily from the growing districts. The question is now, Are we to have a crop of over 10,000 cases or not? In the affirmative prices may fall another 6d. per lb.; but, on the other hand, when once our anxious speculators begin buying our market is certain to advance, or, at all events, to keep at the present quotations for a considerable time." The current *Smyrna* quotations are:—*Karahissar* 7s. 7d., *Yerli* 7s. 7d., *Karahissar* talequale 7s. 3d., *Yerli* ditto 7s. 5d., *Current* talequale 7s. 2d., fair seconds 7s. 3d. to 7s. 4d. per lb., all f.o.b. *Smyrna*. Says another report:—"In spite of all that is said by the speculators who are working for lower prices, and by their friends, and although on the whole the news from the

growing districts is favourable, the crop in certain parts does not at all look as favourable as had been expected, the plants having suffered to some extent from the unpropitious weather which has prevailed and still prevails. There is no longer any question of a yield of 10,000 baskets, the most that can be expected being an output of about 8,000 baskets."

ORRIS—The tendency remains towards higher rates. For best picked pale *Florentine* orris 76s. 6d. per cwt., c.i.f. terms, is asked; while best *Veronese* root is quoted at 56s. per cwt., c.i.f. The stock in Italy is now very small and firmly held.

OTTO OF ROSE.—The season for the distilling of the new flowers is now approaching, but it is difficult to get any reliable news as to the state of the plants. It is generally expected, however, that the crop will be a fairly good one; but it should be borne in mind that there is practically no old stock in first hands.

QUICKSILVER is firmly held at the recent advance in price. The importers quote 7l. 10s., second-hand holders 7l. 8s. 6d. per bottle.

QUININE.—The last business reported before the holidays was at the rate of 12½d. per oz. for B. & S. or Brunswick quinine on the spot, and at 13½d. per oz. for ditto, October delivery. The London stock has again been considerably reduced in the course of the last month, the warehouse figures being:—

Imports in May	..	..	..	..	24,292 oz.
Deliveries in May	..	..	..	..	133,784 "
Stock on May 30	..	..	..	..	2,332,164 "

No business is reported this week, and 12½d. per oz. remains the general spot quotation.

SAFFRON.—Some of the export houses have again reduced their quotations, 23s. 6d. per lb. being now asked for best *Valencia*.

SCAMMONY.—Fine quality is very scarce and dear. For a lot of one case recently imported 25s. per lb. has been paid. Seconds are quoted nominally from 15s. to 18s. per lb.

SCAMMONY-ROOT.—Firmly held at high prices, 35s. per cwt. being now required for good quality.

SENNA.—Sales of fine picked *Alexandrian* leaf have been made privately at 1s. per lb., while for siftings 3d. to 3½d., and for common sorts 2d. per lb., has been accepted.

SHELLAC.—Just before the holidays a holder of shellac cleared out his supply of about 1,400 cases, with the result that a "slump" of from 5s. to 6s. per cwt. took place. Since then the article has again acquired considerable firmness, and part of the drop has been recovered. On Tuesday *Second orange* (TN), for August delivery, sold at 130s., for September at 130s., and for June at 128s. per cwt. Today 134s. per cwt. was paid for August, and 135s. for September delivery. No public sales have been held this week.

SPERMACETI.—*English* refined spermaceti has lately been sold at 1s. 3d. per lb. in Liverpool.

SPICES.—There have been no auctions this week, and a dull tone prevails in the speculative market. *Zanzibar cloves* are flat, with sales of 100 bales—July-September delivery—at 3½d. per lb. *Black pepper* has declined: 50 tons Singapore sold at 2½d. per lb. for nearly due, and at 2½d. per lb. for July-September delivery. *Nutmegs* are rather firmer; just before the holidays about 200 packages changed hands at 2s. 1d. for Penangs (79-80) and 1s. 8d. for Singapore (109-110). *Cassia lignea* has advanced to 32s. 6d. on the spot, and 34s. 6d. per cwt. for September-October delivery. Since then 32s. cash has been paid for 800 cases on the spot.

TURMERIC.—Quiet. *Bengal* is rather easier, and offers to arrive at 9s. 3d. per cwt., c.i.f. terms; on the spot 11s. is still asked. In *Madras* turmeric no business is reported.

WAX (JAPAN).—Slightly firmer. Business has been done in good pale squares at 27s. per cwt., c.i.f. Liverpool; for shipment, c.i.f. London, 26s. 6d. would still be accepted.



Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Anti-extreme Cutting.

SIR,—There are indications which suggest that we might now more successfully put forward a plea for co-operation, this being sometimes necessary to get at the indirect buyer, who resorts to roundabout ways in order to obtain supplies. By co-operation such a person could be dealt with effectually, and if three or more manufacturers whose sales are large would co-operate with us for the purpose of tracking the supplies of the cutter of the preparations of any one of us, we, the associated firms, could prove that anti-cutting terms of business can be made absolutely successful, when more would probably join in the movement.

It would not be necessary for the associated firms to deviate from their anti-cutting terms now in force, nor disclose any detail of their business-operations.

Shortly, (1) When the preparations of any one of the associated firms were proved by evidence to be sold under the minimum prices, the accounts of the wholesaler who had supplied the cutter would be closed by the associated firms, if the wholesaler could not prove that the cutter had agreed with him not to sell below agreement prices, and also not to pass the goods to another person without securing a similar agreement.

(2) The indirect buyer who cuts would be dealt with in a manner to be agreed upon, which need not be made public, but which by co-operation is certain of success.

We have only three reported cases of cutting in hand at this moment, and these being cases of obtaining supplies indirectly, co-operation is desirable to settle them quickly.

The sources of supply of a dealer obliged to obtain several articles by roundabout ways could be more easily traced by co-operation than the source of one article only can be, and it would be a serious matter for any firm to have the supplies of several leading preparations stopped.

We are, yours truly,

ELLIMAN, SONS & CO.

Slough, June 3.

SIR,—In answer to a letter in your last week's issue from Mr. F. H. Prosser, of Birmingham, will you allow us to state that, at a recent meeting of our board, the subject to which he refers was discussed, and we are at present in correspondence with a number of leading makers of patent medicines and proprietary articles, with a view to obtaining a more general adoption of anti-cutting agreements on the lines of that enforced by Messrs. Elliman, Sons & Co.?

Thus far we are much encouraged by the tone of the replies from the various proprietors whom we have approached in the matter, and are hopeful that good results may attend our efforts in this direction.

Yours faithfully,

THE CHEMISTS' ASSOCIATION (LIMITED).

Curtain Road, E.C., June 4.

Mellin's Agreement.

SIR,—From the tone of the article in your last issue on this subject, one would imagine that the new infant was flourishing, but I fear that the "Wholesale Wet-nurses" will not be satisfied if their allowance is cut. As far as they are concerned it is all "skittles" and no beer according to the very latest advices from head-quarters.

Yours truly,

WHOLESALE. (65/27.)

Digestive Ferments.

SIR,—My attention has been called to your kindly comments in your issue of May 18, concerning my recent paper in the *British Medical Journal* on the above subject. Allow me to inform your readers that that abstract of my thesis on the subject might have been much longer had it not been for the pressure upon the space of the journal. A longer abstract, I hope, will appear some day soon in the *Therapeutic Gazette*, or some other such magazine. Your paragraph remarks: "What strikes one most about the thesis is the things that are *not* mentioned." This remark is anticipated in the introductory part of the abstract, where I say: "I was obliged to limit myself to the well-advertised preparations." And again: "Not one of the greatly-advertised preparations failed to realise the British Pharmacopœia's requirements." I could easily have given tables of comparisons of digestive power, but I felt that "comparisons were odious" and somewhat unjust, except, you will observe, in one or two instances, where the peculiar value of the article referred to justifies special mention. Comparisons, however, are not the object of my abstracts. My purpose is only to assure the value and trustworthiness of the many present-day preparations of a line of products which are still shunned by many medical men because of the disrepute into which those products, as a whole, once fell.

I am, dear Sir, yours faithfully,

EDMUND M. SMITH,

62 Scarcroft Road, M.D., C.M. Edin., D.P.H. Camb.
York, June 3.

Edinburgh and London Examiners.

In answer to our query last week, several correspondents tell us why they prefer Edinburgh examiners to those in London.

Courtesy (63/25) agrees with "Anxious" that the examination is not any easier, but that the *modus operandi* is different. At Edinburgh a gentleman, on entering the examination-room is treated with perfect courtesy and consideration, thereby setting him at ease, the sequel of which is that he is enabled to remain perfectly calm under trying circumstances, and reply to questions with some thought.

James Selkirk (Cork) thinks accent or dialect has to do with North of England candidates going to Edinburgh. The examiners there are all men well read in English, also in Scotch (Doric). They don't notice accent or "brogue" so much as an English examiner. From 1864 to 1869, being an apprentice with the late Mr. John Mackay, and seeing many of the candidates (then mostly Modified), Mr. Selkirk then formed this opinion. Many well-read and intelligent candidates who pass in Edinburgh would be "ploughed" on the pronunciation of "oxide" in London.

Yorks (63/6) went to Edinburgh, and passed there at his first attempt. Out of about twenty who passed that session, eight or ten had tried previously in London (some twice or even more times). His reasons were various for going North. One was a personal objection to one of the London examiners, who had the reputation of browbeating nervous candidates, while the corresponding examiner in Edinburgh had the name of a kind-hearted man. Another thing which has some weight with students is that many go to London for the Hall and Edinburgh for the Minor, thus seeing two great cities. "Yorks" says this consideration influenced him.

Auld Reekie (63/15) says the answer to the question is that in Edinburgh the examiners endeavour to find out what the candidate knows, while the principle which the London examiners seem to pursue is to find out what he does not know. "A.R." proceeds to give instances of the careful, thorough, and pleasant way in which the examinations are conducted in Edinburgh, but he offers no evidence whatever of the latter half of his proposition.

Unqualified Chemists in Birmingham.

SIR,—Within half a mile of my shop (in Birmingham) there are eight drug-stores belonging to unqualified men, and managed by unqualified men, and I actually know that in each of these shops scheduled poisons are sold. There are two others in the same area, one of which belongs to a medical man with an extensive practice who keeps an unqualified assistant, and another belongs to a practically retired chemist who keeps his name over the shop, probably to protect his unqualified assistant.

To the general public these are all chemists' shops, and they cannot discriminate between the qualified chemist and the unqualified; each has his "Dispensing Department," each his showy "carbonyls." In other parts of Birmingham I hear the same complaint—unqualified men everywhere; most of them brought into the profession as errand-boys, and encouraged to advance by generous masters. I cannot think that the proportion in my district of the "unqualified" is a criterion of what it is universally, or even the sleepy Pharmaceutical Society would have been awakened. I feel more and more disgusted every day. I see the folly of spending time and money in passing that exam. at Galen Place, and I am writing this in the despairing hope that the Council may be moved to send an inspector to Birmingham. When I came here three years ago the proportion was six qualified to six unqualified; two of the qualified have gone and two unqualified have come, and the proportion is now eight to four. How long will it be before the qualified (at least, in my district) are entirely extinct?

Yours &c.,

ACID. BORIC. (58/29)

Mixing the Measures.

A *Subscriber* (60/56) asks:—"Will THE CHEMIST AND DRUGGIST kindly say, through its columns, the best way to dispense the enclosed ointment, ordered by the *Pharmaceutical Journal* of Saturday last? Copy herewith."

MERCURIAL OINTMENT WITH ADEPS LANE.

Mercury, 20 parts; adeps lane, 25 yards (*sic*); benzoin, in powder, 15 parts; oil of bergamot, 1 part.

Pinhole Photography.

SIR,—Mr. Beckett, in his contribution "Pillboxes and Optics," demonstrates a fact which is commonly known in photography.

On page 139, in the "Ilford Manual of Photography," Mr. C. H. Bothamley, F.C.S., says: "It is well known that when the rays of light reflected from an object are allowed to pass through an aperture in chamber or box an image (inverted, of course) is formed on the side of the box opposite the aperture. The image will act on a sensitive plate, and can be photographed in the same way as an image formed by a lens. The image is mathematically correct, and hence pinhole photographs may be of great service in topographical surveys. The images formed by pinholes lack the sharp definition characteristic of the images formed by good lenses, and the softness of effect resulting from the absence of fine definition is regarded by some photographers as a great gain in the direction of pictorial value." The chapter on pinhole photography is well worth reading.

ASSISTANT. (63/35.)

SIR,—Your correspondent H. R. Beckett states a proposition which is undoubtedly true—viz., that the image formed upon the retina is inverted. The method described by him, however, does not prove it. It only shows that rays of light from an object passing through a virtual point will give an inverted image. Rays of light from an object passing through such a system of lenses as the eye will also give an inverted image, but there is no sequence between the two phenomena. It just happens that the image on greased paper, viewed by Mr. Beckett, formed an erect picture on his retina at the very time he was seeking to prove its inversion. In the experiment described only the laws of direct radiation are concerned; in the eye the laws of refraction are concerned in virtue of the various refracting media of the eye.

So far back as the retina the eye is an optical instrument,

amenable to optical law. Behind the nerve points optical law no longer holds good, and what actually takes place to constitute conscious vision is known very little about.

Yours truly,

T. C. RICHARDS.

Clifton, June 4.

DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the under-mentioned topics.

Quinine-mixture.

Ammoniated quinine is best prescribed thus:—A teaspoonful in a wineglassful of aerated potash-water. The mixture in this way is clear.

C. B. D. (53/43)

An Explosive Gargle.

SIR,—As the following prescription, which was dispensed here to-day, exploded after a few minutes, we submit it as a warning to dispensers.

Pot. permang.	..	..	..	..	gr. viij.
Sanitas fluid	..	..	..	..	3j.
Aqua al	..	..	..	..	3vj.
M. Ft. garg.					

Yours truly,

30 Westmoreland Street,
Dublin, May 28.J. J. GRAHAM & CO.
Per J. E. WALSH.

[We presume it was the bottle that exploded. Considering that sanitas fluid is rich in hydrogen peroxide, and that there is a copious liberation of oxygen on adding permanganate, the result is not surprising. Apart from that, the addition of a permanganate to organic substances is always a risky thing at the dispensing-counter.]

A Bismuth Mixture.

SIR,—I had the following prescription to dispense:—

Bism. salicyl.	..	..	..	..	gr. xxv.
Pulv. trag. co.	..	..	..	..	5j.
Solli sulphocarb.	..	..	..	..	5j.
Pot. iodidi	..	..	..	..	gr. xxv.
Spt. chlor.	..	..	..	..	5iss.
Aq. m. p. ad	..	..	..	..	3vj.
M. Ft. m'ist.					

3ss. ter die.

After standing some time it became yellow. Is it possible to obtain a white mixture?

Yours truly,

AMMONIUM. (61/59)

[Bismuth oxyiodide, a red salt, is gradually formed, and cannot be avoided.]

Quinine citrate Mixture.

SIR,—The addition of citric acid is unnecessary, and at the best only serves to retard the formation of insoluble quinine citrate; and the larger the quantity of acid used the more crystalline the deposit on sides of bottle. Why not proceed as follows? Dissolve the pot. citrate in 1 oz aqua, and add 1 oz fresh mucilage; shake gently, and add the ferri et quin. cit. dissolved in another 2 oz. aqua; shake gently, add tinct. zingib., and fill up. The precipitated quinine citrate is, by this means, not only suspended, but is amorphous.

Yours truly,

Nuneaton, May 23.

A. E. SLINN.

SIR,—Having tried your suggestion, I have, like your correspondent, found crystals deposited in two days' time.

Yours truly,

H. R. (60/9)

[We have found the problem interesting, and still have experiments going.—ED.]

An Ichthylol-mixture.

We have received a reply from the Ichthylol Gesellschaft Cordes, Hermann & Co., to the dispensing query published on May 4, asking if sulpho-ichthylolate of iron is formed in a mixture of ichthylol $\zeta j.$ and syr. ferri iodidi $\zeta ij.$ Their chemist states that assuming by reaction of ichthylol ammonium with ferrons iodide ammonium iodide and sulpho-ichthylolate of iron are formed. As the sulpho-ichthylolate of iron is insoluble in water, it can easily be prepared by precipitation from ichthylol solutions with any soluble ferrous salt, and washing the precipitate with water. By addition of ferric salts to ichthylol solutions precipitates containing iron compounds of ichthylol are also formed, whilst, at the same time, partial oxidation of ichthylol is brought about by the ferric oxide.

45/4. *W. E. C.*—Use glycerine and water to mass the powdered soap, and elbow grease *ad lib.*

59/19. *H. V. H.*—There is nothing peculiar in the explosion of the syrup and liq. opii mixture made last October. It had fermented, and the liberated gases (chiefly CO_2) wanted to get out, so they broke the bottle.

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY.

61/5. *Tenax* asks if we think a label expressed as under would render the sale of seidlitz powders safe, though they might be a few grains over or under the recognised weight "Genuine seidlitz powders. These powders are prepared strictly from materials ordered in the B.P., and are carefully measured separately in a wooden mould, ensuring their accuracy as near as is possible, and should weigh somewhere near—blues 160 gr., whites 38 gr." The label would perfectly satisfy us if we filled the magisterial chair; but all magistrates are not as wise as we are.

63/24. *Quatus.*—In England and Wales a person without a medical qualification can be fined 20% under the Apothecaries Act if he "practise as an apothecary." We do not know of any similar law applying to Scotland.

63/38. *A. Y. Z.*—You will find particulars of the Transvaal Pharmacy Law in this journal for December 1, 1894. A certificated British chemist would probably be allowed to register without other formality than that of paying the fees.

62/33. *Strophanthus.*—It is not reasonable to expect us to give an opinion of any value on the proportions of profit to be divided between A. and B. in an enterprise which they are going into jointly without hearing what both A. and B. have to say. If, as we gather, the qualifications of each are, and the work to be done by each is, about equal, it would seem fair to divide the profits; but as A. is to invest more money than B., it would be reasonable to make a first charge on the otherwise net profits of, say, 5 per cent. as interest on capital, and then divide the balance.

64/2. *Felix.*—A person on the register of chemists and druggists may sell poisons. But an assistant who, in 1893, applied to be entered on the list of persons for whom the Modified examination was provided, has no legal qualification unless he has passed that examination.

64/5. *Querulous.*—It does not matter how you label the Fellows's syrup. It is liable to medicine-stamp duty, and you are required to stamp every put-up bottle of it. You can sell any quantity of it from a stamped bottle in your customer's

own bottle, or for consumption on the premises, without re-stamping; but if you make a new packet of it a new stamp is required.

MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

44/14. *J. N. H.*—The Powder for Polishing Marble consists mainly of oxalic acid and sal ammoniac. An ounce of the latter to 1 lb. of the former will give you a similar article.

44/19. *Remo.*—Your Headache-powder is acetanilide, gr. vj. (coloured). One may be given every four hours.

114/95. *Argo.*—If you can tell us what the ointment is for, and send us another sample, we will endeavour to assist you.

45/29. *J. G.*—It is a pity you diluted the rheumatism-mixture, as some of the "insoluble" crystals would have been useful. As it is, we corroborate your observation that it contained potassium iodide, and, apparently, phenacetin.

52/58. *W. G. B.*—Resins Soluble in Benzoline. Amber, copal, colophony, benzoin, and elemi are more or less soluble under certain conditions.

40/71. *Shaky Analysis.*—The nearest we can make of your Fever-draught for Horses with cold, cough, or influenza is as follows:—

Camphor.	5ss.
Spt. ether. nit.	5ss.
Tr. opii	5ss.
Ext. gentian.	5ss.
Ext. glycyrrhiz.	5ss.
Aq. ad	5ij.

M.

This for a dose every six hours.

15/95. *Dibs.*—Mixture for Distemper—This, we are told, is made by a drunken vet. We find it to be—

Chlorodyne	5ss.
Olive oil to	5j.

M.

Dose for a collie pup, a teaspoonful.

38/15. *Nomen.*—We do not quite understand what you mean, but we may say that solutions of Crawshaw's or "Diamond" dyes are as good as anything for photograph-colouring. The "Diamond" dye makers (for whom Hatrik & Co., Limited, are agents) print a pamphlet on the art.

39/32. *Belgravia.*—Eczema-lotion:—

Calcii sulphid.	gr. v.
Calamina ppt.	9j.
Sulphur. lac.	5j.
Glycerini	5ij.
S.V.R.	5ij.
Aq. rose ad	5ij.

M.

This is the nearest we can come to the lotion which you say is "very successful in allaying irritation."

39/18. *Alpha* sends a specimen of Healing Substance used by Galvanised-wire Workers to know if we can

inform him of its composition. They keep it warm and soft in a glue-kettle arrangement. In the case of a wound it is supposed to prevent poisoning, and ensures quick healing. It is a good old-fashioned thing, made by melting together about 3 parts of black pitch and 2 parts of olive oil.

37/4. *Marston*.—See reply to a similar query recently.

57/47. *Supposit*.—You do not tell us what the pessary is for; without that information we cannot attempt an analysis.

54/56. *A. B.*—The mixture cannot be made into an inseparable emulsion without addition of water.

39/29. *J. W. B.*—The nut oil used in making lime cream is ol. amygd. persic. For a formula, see our issue of January 13, 1894, page 61.

232/9. *F. G. E.*—Thanks for yours *re* the Tenderloin district.

47/65. *L. P. S. I.*—(1) Your trouble is that linen after being bleached with chlorinated lime and rinsed is blued and starched, and after finishing becomes yellow. This may be due to traces of the bleach decomposing the blue. To remedy this the linen should be washed more, and exposed to the air for half a day, again rinsed in water containing the blue, and starched. (2) The cold weather of last winter is the cause of the crystallisation. You may use less of the dye.

47/66. *Calendula*.—You will find the information in the "Answers to Correspondents," 1894 DIARY.

53/27. *Alpha*.—Mercury forms amalgams with tin, copper, and aluminium, and therefore with the metals which you mention. Iron is a metal with which it somewhat slowly amalgamates.

53/25. *Sam*.—(1) Pill-making in U.S.A.—See *C. & D.* January 27, 1894. (2) Send stamped envelope for reply (3) We know what gloy is, and have used it, but we do not make it; and the information which you ask is exactly that which the maker only can supply.

53/43. *Dublinensis*.—Oxalic acid is the only thing that will remove ink-stains from brown boots. Unfortunately, it will remove the brown too.

53/44. *Ostracised*.—(1) Eikonogen is the sodium salt of amido-beta-naphthol sulphonic acid, $C_{10}H_7NSO_4$. (2) Hydroquinone is para dioxy-benzene, $C_6H_4O_2$. (3) Methylene Blue.—See 1895 DIARY, page 414. (4) Methyl Orange is dimethyl-amido-azo-benzene monosulphonate, $C_{11}H_{11}SN_4O_4$. (5) Gazogene-powders for lemonade are the same as ordinary powders; but you put some lemon-syrup in the tumbler. (6) The way to get worms out of furniture is to scrape the furniture, and brush with a solution of mercuric chloride.

53/51. *J. B.*—(1) Nursery Hair-lotion.—See *C. & D.* vol. xliii., where there are several recipes. (2) Cough-mixture.—We have published dozens of formulae in the current volume.

53/65. *Papaw*.—Use papain instead of pepsin in the formula given in our issue of July 22, 1893, page 129.

54/12. *Pepsin*.—Pancreatin and bicarbonate of soda are the powders used for peptonising milk. Try Fairchild's.

52/27. *R. R.*—Consult the DIARY "Buyers' Guide" in regard to magnesium chloride.

53/4. *Delta*.—Paris Green is an impure arsenite of copper, largely produced as a by-product in the colour industry. You can get it from any wholesale house.

52/48. *A. S.*—Oil of Lavender.—An ounce and a half of S.V.R. to each pint of oil is the quantity generally added to improve the flavour on keeping.

52/14. *Chilblain*.—You have what is called a Chilblain Circulation, which often shows itself in such sluggish blood-circulation in the ears that frost and wind induce inflammation and subsequent eruption. The only thing to remedy that is careful attention to the health. Feed well, adding either essence of malt or stout to the diet, according to your habit of living, and take such a tonic as the following:—

Ferri ammon. cit.	..	..	..	9ij.
Liq. arsenic. hydrochlor.	..	..	..	℥xx.
Aq. chloroformi	..	..	..	3viij.

M.

An eighth part at 12 noon and 4 P.M. daily.

You may increase the arsenic gradually to a 5-minim dose if it does not give you headache.

52/55. *Danum*.—(1) Extract of Herbs.—See 1894 DIARY, page 367. (2) Composition Essence.—See *C. & D.*, November 26, 1892, page 788. (3) Already replied to.

52/16. *R. A. S.*—The Minor examination certificate is recognised in all the Australasian colonies for registration therein as pharmaceutical chemist.

51/39. *Pyro*.—(1) Pyrotechny—Kentish's book, published by Chatto & Windus. (2) Vanadate-of-Ammonium Ink is a fossil which we hesitate to unearth. All recent reports we have heard of it are unsatisfactory.

51/48. *A. P. C. (Palermo)*.—Syr. Ferri Quininae et Strych. Phos., U.S.P.—Glycerine was added in the 1890 edition to prevent precipitation. It is soluble ferric phosphate (citro-phosphate of iron and sodium) that is used, and the amended formula is—

Soluble ferric phosphate	..	..	20 grammes
Quinine sulphate	..	..	30 "
Strychnine	..	..	02 "
Phosphoric acid (85 per cent.)	..	..	48 c.c.
Glycerine	..	..	100 "
Water	..	..	50 "
Syrup to	..	..	1,000 "

Heat the soluble phosphate with the water till dissolved, add the phosphoric acid and the alkaloids. Stir till dissolved, and filter into the glycerine. Then make up to 1,000 c.c. with syrup.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

52/27. Makers of carbon bisulphide.

49/52. Maker of panel bottles K 3,557.

63/42 (Devonshire) wants address of makers of granulated carbon for filter-beds.

63/34 (Near Manchester) wants address of a manufacturer of bone earth.

64/16. Makers of white and brown gelatine.

65/16. English agent for "Independent" stylographic pens.



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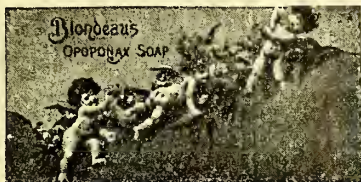
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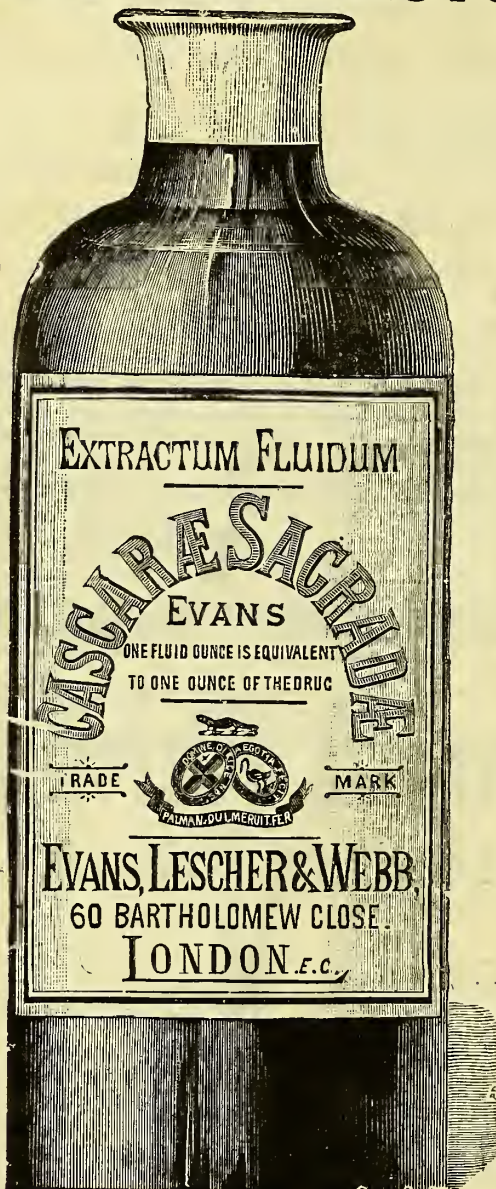
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We guarantee each kind to be in every respect equal to our manufacture of last year, which we are assured gave the utmost satisfaction to all our friends.

"A" QUALITY. Very Superior		1 cwt., 80/-; 5 cwt., 77/6; 10 cwt., 75/- per cwt.
In round bottles, corked and capsuled	... 1-lb.	1-lb.
Per dozen	... 4 6	7/9 14/-
Per gross	... 50/-	90/- 150/-
"B" QUALITY. Superior		1 cwt., 65/-; 5 cwt., 62/-; 10 cwt., 60/- per cwt.
In bottles as above	... 1-lb.	1-lb.
Per dozen	... 4 3	6 3 11/6
Per gross	... 48/-	72/- 130/-
"C" QUALITY. Very Good		1 cwt., 60/-; 5 cwt., 58/-; 10 cwt., 56/- per cwt.
In bottles as above	... 1-lb.	1-lb.
Per dozen	... 4/-	6/- 10/-
Per gross	... 45/-	69/- 112/-
"D" QUALITY. Good, Saleable		1 cwt., 56/-; 5 cwt., 54/-; 10 cwt., 52/- per cwt.
In bottles as above	... 1-lb.	1-lb.
Per dozen	... 3 9	5 9 9/-
Per gross	... 40/-	64/- 102/-

SAMPLES ON APPLICATION.

	A	B	C	D
6-oz. Blue Flats, lettered, wood-top corks, per gross.....	48/-	42/-	38/-	36/-
8-oz. " " " Patent Stoppers, 1" per gross extra.	52/-	46/-	42/-	40/-

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"Messrs. T. Howard Lloyd & Co. have submitted to us two qualities of Citrate of Magnesia; both of these consist of large, uniform, well-made granules, which are perfectly white and free from dust and small particles. When added to water both qualities evolve a large volume of Carbonic Acid Gas with a copious and well-sustained effervescence. After this has passed off the solution is perfectly bright, clear, and free from suspended matter."—*British and Colonial Druggist.*

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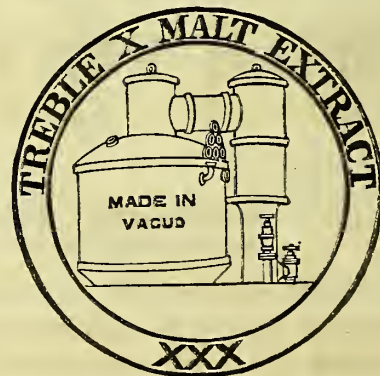
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Mono Carbonate of Soda	--	--	--	--	--	1.90
Sulphate of Soda	--	--	--	--	--	trace
Chloride of Sodium	--	--	--	--	--	.035
Moisture	--	--	...	--	--	.82
Insoluble	--	--	--	--	--	nil

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PAGE 52

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LIQUOR CARNIS SUPPOSITORIES.

1/10 box.

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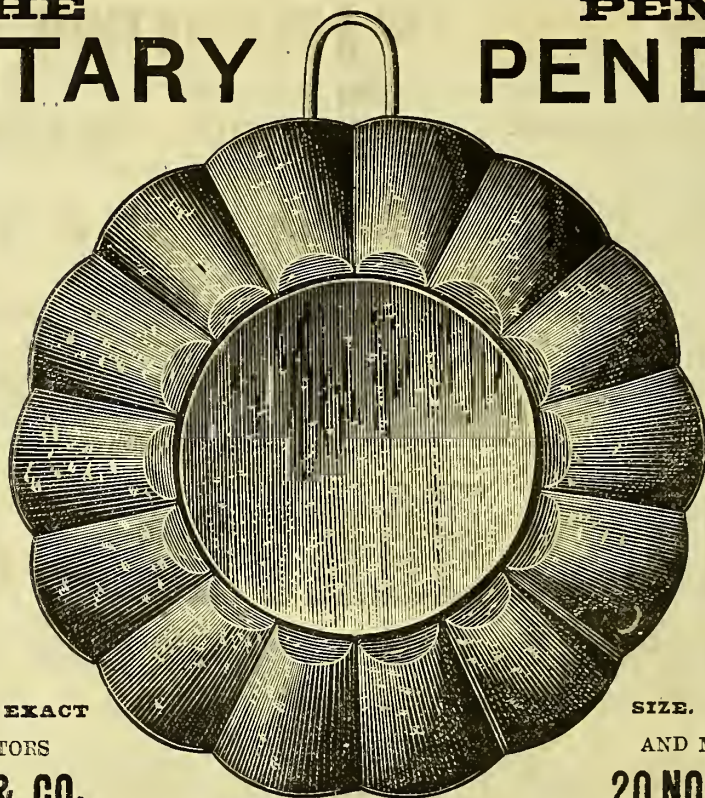
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Retains the Chlorine and keeps the Powder dry longer than
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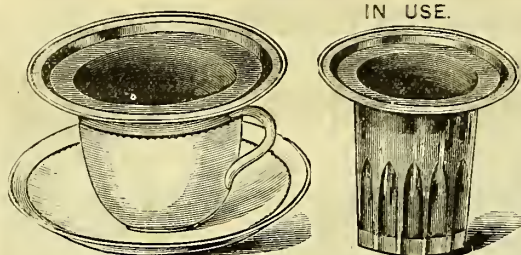
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It having recently come to our knowledge that BABY SOOTHERS fitted with CONCAVE SHIELDS are being offered for Sale which are not of our Manufacture, we beg to intimate to the Trade that such Concave Shields are an infringement of our Registered Design, No. 208065.

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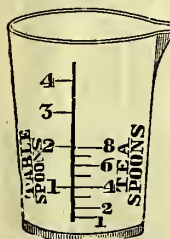
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Manufacturers and Proprietors of the "Lily" Baby Comforters (fitted with Concave Shields).

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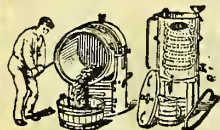
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WHITE MOULDED PHIALS, plain or graduated Teaspoons—			
1 1/2 oz. ..	3/6 per gross.	1 1/2 oz. ..	4/6 per gross.
1 " " ..	3/9 " "	2 " " ..	5/- " "

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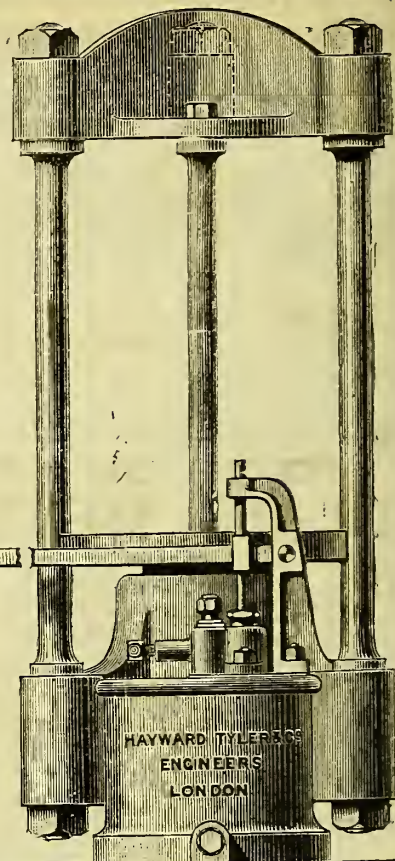
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Established 50 years.

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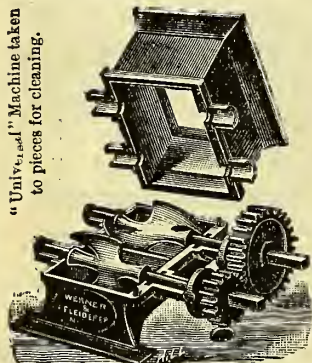
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It also serves to distinguish medicine bottles from others containing poisons or preparations *not* intended to be taken.

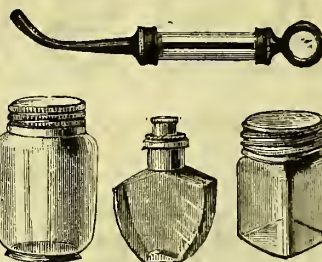
The label or tablet is gummed or attached to, or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered.

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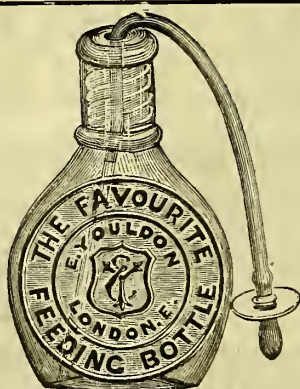
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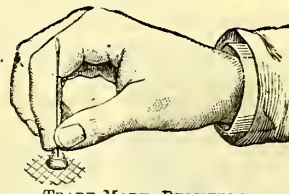
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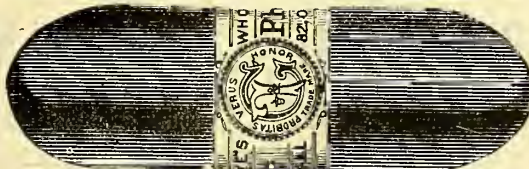
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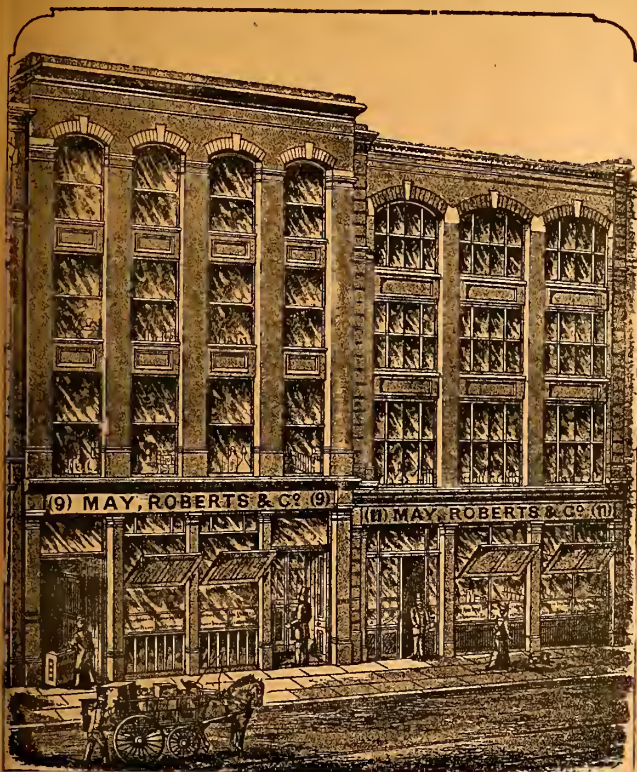
It pays because your circulars reach buyers, not as isolated and unrecommended printed matter, but under the attractive cover of a publication recommended by 37 years of unexampled utility.

See that your Printer has the size of "THE CHEMIST AND DRUGGIST" PAGE, 9 inches deep by $6\frac{1}{4}$ wide.

The next Summer Number will be published on the 27th July, 1895.

For further particulars address

THE PUBLISHER OF "THE CHEMIST AND DRUGGIST,"
42 CANNON STREET, LONDON, E.C.



REVISED JANUARY, 1895.

ILLUSTRATED PRICE LIST,

ISSUED HALF-YEARLY.

NO TRAVELLERS!

Their Expenses Given to Buyers.

DRUGGISTS' SUNDRIES.**PACKED****DRUGS & PERFUMERY.****PATENT MEDICINES.**

SPECIAL QUOTATIONS FOR QUANTITIES.

List sent Post Free on receipt of Business Card.

TERMS ON APPLICATION.

☛ COMPARE THE PRICES. SEND SAMPLE ORDER.

FEVRE'S**SELTZOGENES**

Caned, each—

2-PINT.	3-PINT.	5-PINT.	8-PINT.
6/9	8/3	12/6	20/3

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2-PINT.	3-PINT.	5-PINT.	8-PINT.
6/6	7/9	11/9	18/9

£5 worth or more, 5 per cent. discount and Carriage Paid.

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MAY, ROBERTS & CO have been appointed Special Agents for these well-known Goods, and are prepared to execute orders at the following prices:—

Cane Covered, each—

2-PINT.	3-PINT.	5-PINT.
10/-	11/6	17/6

Spare Upper Globes, each—

2-PINT.	3-PINT.	5-PINT.
5/-	6/6	9/3

Spare Lower Globes, each—

2-PINT.	3-PINT.	5-PINT.
4/9	4/9	6/2

Repairs executed at moderate prices. Not responsible for breakage in testing.

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MAY, ROBERTS & CO. have been appointed Special Agents for the above celebrated single-fluid Hair Dye.

Retail ...	2/-	Less than 1 dozen ...	14/6
„	2/-	Not less than 1 dozen...	14/-
„	2/-	Not less than 12 dozen	12/11

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NATURAL MINERAL WATERS.

Single Cases Delivered in London, and, at the Same Prices,
Carriage Paid, to any Railway Station.

THE APOLLINARIS COMPANY, LIMITED, 4 Stratford Place, Oxford Street, London, W.

Cadbury's Cocoa

ABSOLUTELY PURE
therefore BEST.

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure."—*The Analyst*.

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

DO NOT LET YOUR CHILD DIE!

Fennings' Children's Powders Prevent Convulsions; are Cooling and Soothing.

FENNINGS' CHILDREN'S POWDERS.

For Children Cutting their Teeth, to Prevent Convulsions.

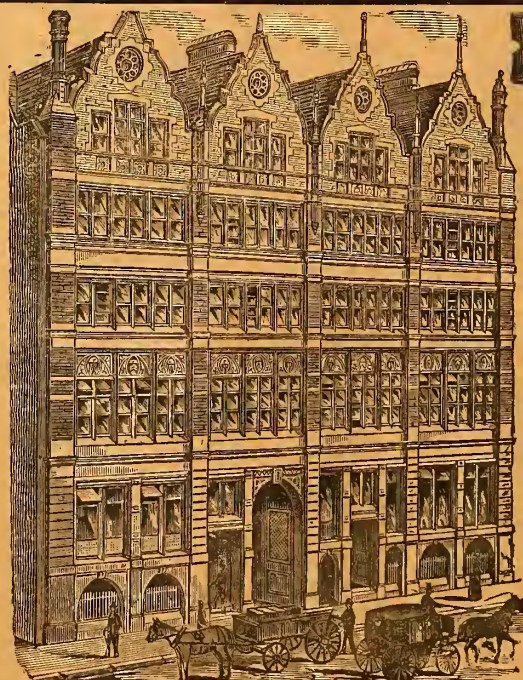
Sold in Stamped Boxes, at 1s. 1d. and 2s. 9d. (great saving), with full Directions.

Do not contain Calomel, Opium, Morphia, nor anything injurious to a tender babe.

Chemists, by applying to the Patent Medicine Houses and Wholesale Chemists, can obtain, free of any charge, a supply of "FENNINGS' EVERY MOTHER'S BOOK," for Counter distribution.

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TEETHING.

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BOOK OF ILLUSTRATIONS
CONTAINING NEARLY
5,000 ENGRAVINGS
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MAY BE HAD ON APPLICATION ENCLOSED BUSINESS CARD.

Forwarded Post Free to all parts of the World.

S. MAW, SON & THOMPSON
7 to 12 ALDERSGATE STREET, LONDON, E.C.

The Chemist & Druggist

SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, JUNE 8, 1895

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

IMPORTANT NOTICE.

The Circulation of THE CHEMIST AND DRUGGIST SUPPLEMENT for June 15 will exceed

14,000 COPIES.

IT WILL BE SENT TO EVERY

CHEMIST AND DRUGGIST IN BUSINESS,
GIVEN TO

ANY ASSISTANT WHO APPLIES FOR IT PERSONALLY,
AND POSTED TO

ANYONE CONNECTED WITH THE TRADE WHO SENDS A STAMPED ADDRESSED WRAPPER FOR IT.

It is an unequalled ADVERTISING MEDIUM for Drug Trade requirements.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£700.—LONDON, S.W.—Good-class Dispensing Business, situate in an attractive residential locality, rapidly increasing; no immediate opposition; returns present rate between £600 and £700 yearly, *very good profits*; superior house, corner position; price about £650, or offer.

2.—£600.—EASTERN SUBURB.—Prescribing and Retail Business, well established; returns about £600 yearly, *profits good*; convenient house, with garden; price about £350; good investment for a young beginner.

3.—£1,000.—LONDON (Southern Suburb).—Dispensing and Retail Business, good-class, well situate in a main thoroughfare; commanding position; returns over £1,000 yearly; very good house, with garden and conservatory; price £800.

4.—£775.—LONDON, S.E. (Suburb).—Dispensing, Prescribing, and Retail Business, situate in a middle-class busy locality; returns last year £775 (nearly), with *good profits*; nicely-fitted shop, convenient residence; held on lease; about £600 required; investigation invited.

5.—£400.—LONDON, W. (Suburban).—Retail Business, practically unopposed; returns present rate over £400 yearly under management; small house, very good warehouse room; about £400 required, or offer.

6.—£600.—LONDON, N.W.—Dispensing and Retail Business (middle-class), situate in a good-class locality; returns about £600 yearly; comfortable residence, held on lease; price about £450; investigation invited.

7.—£300.—LONDON (South).—Light Retail and Dispensing Business, situate in a densely-populated neighbourhood, with no immediate opposition; returns nearly £300 yearly; single-fronted shop, with plate-glass house; has 6 rooms with private entrance; held on lease; terms about £300, or reasonable offer.

8.—£1,500.—POPULAR WATERING-PLACE. (Season just commencing).—For disposal, good-class Dispensing and Retail Business; no heavy trade; returns £1,500, increasing, *very good profits*; the Business is situate in the main thoroughfare, good commanding position; double-fronted shop and ample stock; convenient residence with private entrance; the investment requires about £1,300, for which full value is offered. Particulars on application (London references required).

9.—£600.—SEASIDE HEALTH RESORT.—High-class Dispensing Business; returns average £600 yearly; convenient residence with garden; about £500 required, or offer entertained.

10.—£1,000.—SOUTHERN COUNTY.—Dispensing and Retail Business, with some light fancy trade; returns £1,000 yearly; *net profit* £400; well-fitted shop and good working stock; about £800 required, or offer.

11.—£950.—DERBYSHIRE.—Mixed Business, with good Family trade; very old-established; returns average £950 yearly; double-fronted shop, commodious residence, &c.; price £800; investigation invited by a *bond-fide* purchaser.

12.—£3,000.—WEST OF ENGLAND.—Mixed Business, situate in the main street in a good business town; returns between £2,500 and £3,000 yearly, *with large profits*; nice residence, with large warehouse at rear; terms, small premium and valuation.

13.—NORTH OF ENGLAND.—Mixed Business; well established; commanding position; returns about £1,200 yearly, under management, has done £1,600; vendor retiring from the business; terms valuation only; full particulars on application.

14.—£2,000.—WESTERN COUNTY.—High-class Dispensing Business, situate in a main thoroughfare in a good-class country town; commanding position; returns over £2,000 yearly; *net profit* £700; must be sold; a purchaser with about £1,300 in cash will be treated if good security can be given for say £400.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

F. J. BRETT

Valuer, 60 St. Stephen's Road, LEICESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE. NO CHARGE TO BUYERS.

LONDON SUBURB.—£1,500 returns; first-class Retail, Dispensing, in good locality, and producing at least one-third net profit; price £1,400; reference must accompany inquiry.

LONDON, N.—£650 returns; nice district; good-class Retail; good house, rent £40; price £450.

DERBYSHIRE.—Country Retail, with Wine and Spirit agency; returns £750; price £450.

LANCS.—£500 returns; General Retail and Prescribing; price £350.

LEICESTER.—Nearly £500 returns; good thoroughfare, and capable of much increase; price £330

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

1.—**BATH.**—Old-established Retail and Dispensing Business; same hands 40 years, retiring; returns £700; net profit £300; can be much increased; price £550; valuation terms arranged if wished.

2.—**WEST MIDLANDS.**—Good-class Light Retail and Dispensing Business, held by vendor 30 years; returns £1,100; profits good; owner retiring; good house, low rent; price £900.

3.—**KENT** (within 20 miles of London).—Old-established good-class Retail and Dispensing Business; returns £1,300; net profit £450; good house, handsome shop; price £1,050.

4.—**SURREY.**—Large town; Retail, Dispensing, and Prescribing Business; returns £7 weekly, steadily increasing; rent £40; good house; good reason for selling; price £250, or offer.

5.—**SOUTHEAST.**—First-class Retail and Dispensing Business, in good position; returns £550, at full prices for everything, if cut would double at once; price £475, part could remain.

6.—**HAMPSHIRE.**—Unopposed Retail and Dispensing Business, combined with Stationery; returns £1,000; net profit £400; good house, modern shop, well fitted and heavily stocked; price £800, or offer.

7.—**MIDLANDS.**—Retail, Dispensing, and Prescribing Business; returns £800 under management; rent £40; good house; vendor, having other engagements, will accept valuation.

8.—**LONDON, W.**—High-class Light Retail and Dispensing Business, making a net profit of £450 yearly; splendid position, centre of the West-end squares; price £1,250.

9.—**WEST KENSINGTON.**—Light Retail, Dispensing, and Prescribing Business; returns £600; handsome double-fronted corner shop; good house; at valuation about £250; no goodwill.

10.—**LONDON, N.W.**—Main street; Light Retail, Dispensing, and Prescribing Business; returns £1,250; good profits; books open for inspection; price £750; worth special attention.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

THOMAS TOMLINSON & SON

Chemists' Consultants, Investigators, Transfer Agents and Valuers,

9 NEW CANNON ST., MANCHESTER.

FORTY-FOUR YEARS' EXPERIENCE.

OLDHAM.—Rent £25; price £220; returns £350; good house.

CAMBRIDGESHIRE.—Profit £287; rent, on lease, £110; splendid house; valuation about £500; goodwill by arrangement.

LANCASHIRE.—Wholesale; about £1,000 required; good connection; death sole cause of sale.

LANCASHIRE.—Large town; returns £2,145; 2 shops.

POTTERIES.—Profit, £750 in 3 years; price £300; rent £22.

And 42 others of various sizes, and classes, and localities.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"Tomtom."

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(SUCCESSORS TO CROCKER & CO.),

Trade Valuers, Transfer Agents, & Accountants,

76 CANNON ST., LONDON, E.C.

(ADJOINING CANNON STREET STATION).

LONDON.

S.W.—Retail and Prescribing Business; returning about £400, with good profits; nice residence; price £250.

W.—Good-class Retail and Dispensing; returning about £700. Handsome well-stocked shop and good house; price £300, or valuation.

N.—Retail and Prescribing; returning £300; price £200, or offer.

W.—High-class Dispensing; returning £1,300 at good prices; price £300 goodwill and valuation.

N.E.—Light Retail and Dispensing; returns £700; price £650.

N.—Cash Retail Business; returning £650; price £550.

COUNTRY.

BIRMINGHAM.—A Cash Retail and Prescribing trade; returns at full price, £450 a year; price £225.

YORKSHIRE.—Cash Retail and Prescribing; returning £1,500; price £1,100, or valuation; terms can be arranged.

SURREY.—Light Retail and Prescribing; returning over £400; capable of great increase; price £200.

LINCOLNSHIRE.—Dispensing and Agricultural Business in first-rate position in the town; returning £550; price £300.

GLOUCESTERSHIRE.—Good-class Country trade; returning over £1,000; price £900, or close offer.

LIVERPOOL.—Old-established Family Retail Business; returning nearly £500 a year; rent £32; price £400.

VALUATIONS PERSONALLY CONDUCTED.

TRANSFER AGENTS

AND

VALUERS.

FERGUSON & OSBORNE

PARTNERSHIP

AND

GENERAL NEGOTIATORS.

NEXT DOOR to BOW CHURCH.

BURTON-ON-TRENT.—Light Retail, Dispensing, and Prescribing; bold shop, well fitted and stocked; owner retiring; business could easily be doubled by energetic man; 10-roomed house, garden, &c.; price £360.

BIRMINGHAM.—Death vacancy; Light Cash Retail and good Prescribing Business; double-fronted shop, fitted in solid mahogany; present returns, £600, under management; late proprietor did double; nominal price (£250) to immediate purchaser.

WOOLWICH.—Retail and Prescribing Business, with Photographic Requisites; good shop, single front, well-fitted in mahogany; in present hands 15 years; private entrance, 6 rooms, and cellar; returns £450; rent £50; lease 20 years to run; price £400.

PORTSMOUTH (near).—Cash Retail, Prescribing, and Optical; net profit £140; rent £26; good house and garden; pleasant residence; opening for Dentist; price £220.

LONDON, W.—Sale through ill health; Retail, Prescribing, and Dispensing Business, with several good proprietaries; returns £470; net profit £207; convenient house with private entrance.

LONDON, N.W.—Very profitable Retail and Prescribing Business; returns £250; could be immediately doubled by gentleman with capital; good house; moderate rent; price £100.

Particulars of other Businesses on application.

Our Speciality, VALUATIONS conducted from start to finish by a member of the firm. Our experience extends over 25 years. References to past Clients.

56 CHEAPSIDE, LONDON, E.C.

SITUATIONS OPEN—Cont.

LOCUM-TENENS wanted immediately, by W. Harvey, 3 Ford Street, Derby.

IMMEDIATELY, an energetic and experienced Assistant. Apply, Morgan Brothers, 293 Pentonville Road, King's Cross.

IMMEDIATELY, a good Junior Assistant, indoors; Dispenser and quick Counterman. Apply personally, or if by letter, state full particulars, Read, 90 Victoria Street, S.W.

EXPORT.—Shipping Clerk (Junior); accustomed to invoicing; must have some knowledge of the Drug trade, and write well. Apply by letter, H. E. Stevenson & Co., 130 Southwark Street, S.E.

WANTED, a qualified Assistant, to take charge of a good Mixed business; must be able to produce first-class references. Apply, with references, &c., J. McCall White, Wigton, Cumberland.

ASSISTANT, for West-end business; to dispense, put up stock, and attend to Counter; outdoors; enclose photo. Full particulars to "Troch," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED Manager for Branch business; married preferred; good house; must be thoroughly trustworthy and have good references. Apply, with usual particulars, to F. Kirby, Abington Street, Northampton.

CAPE TOWN.—Assistant wanted; Retail; Minor qualification; young man, steady, accurate, and quick Dispenser; 3 years' engagement; second-class passage paid. Apply, stating full particulars, to J. L., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

WANTED, a qualified, trustworthy Assistant, about 24; indoors; accustomed to Retail and Prescribing; good Counterman; salary and commission. State age, height, experience, references, salary required, and if any knowledge of Dentistry, to J. D. Pidgeon, Pb. Chemist, 6 Lewisham High Road, New Cross.

GENEVA, Switzerland.—Premier Assistant (de préférence Anglais), parlant couramment Français, Anglais, et Allemand, connaissant à fond la pharmacie internationale, demandé pour 1^{er} Juillet chez M. Ackermann, Pharmacie Anglo-Américaine. Inutile d'envoyer des offres sans références sérieuses, avec photo.

WANTED, a smart, energetic, gentlemanly Assistant, about 30, of good appearance and address, accustomed to a good-class Dispensing and bnsy Retail business. State age, height, salary required (outdoors), references and full particulars, send photo, to 262/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR June 15.—A competent, qualified gentleman, aged about 26, is required as Senior Assistant, in a small but select business, at the West-end of London; a neat and accurate Dispenser; good handwriting most indispensable. Apply (personally after 11.30 A.M. preferred) to John Taylor, 13 Baker Street, Portman Square, London, W.

WANTED in July, a gentlemanly Assistant (indoor) about 25; must be an energetic Counterman, good Salesman, accurate and reliable Dispenser, and used to a Mixed Agricultural business; 3 employed in shop; undeniable references indispensable. Apply, stating age, height, salary, &c., enclosing photo, to J. Wellington, Chemist, Oakham.

IMMEDIATE, a Minor or good Junior.—Indoor Assistant wanted; he must be well recommended as a trustworthy accurate Dispenser; one who has been accustomed to a good-class business; age not less than 22; height 5 ft. 8 in.; state salary required. Apply, at 317 Fulham Road, Brompton, S.W. (if by letter, photo will be necessary, which will be returned).

MANAGER for Branch; married; qualified by exam.; energetic and obliging; one desiring a permanency; salary and commission, with unfurnished house and garden free; half-holiday weekly, and light Sunday duty; Churchman; photo if possible; nice country, near London; a desirable engagement. "Taxis," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BISHOP'S PURE DRUG CO., 460 Holloway Road, N., are in want of an experienced Assistant for front counter, also good Junior; both with knowledge of Photography preferred; hours of business, 9 a.m. till 10 p.m., Saturdays 9 a.m. till 11 p.m., one day per week 9 a.m. till 3 p.m., one hour for dinner, half-hour for tea. Please state salary required (outdoors), references, experience, and every particular in first letter, or apply personally.

SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

PART-TIME; afternoon Assistant, 2 till 6; 24. E., 70 Balcombe Street, N.W.

JUNIOR, disengaged. Edwards, Mr. Williams, Chemist and Dentist, Mountain Ash.

LOCUM or Manager; qualified; aged 38. "Chemicus," 86 St. James Road, Holloway.

JUNIOR; 20; 5 years' experience; London preferred. G., 756 Holloway Road, London, N.

TEMPORARY, Manager or Senior; qualified. "Chemist," 18 Madoc Street, Llandudno.

JUNIOR, 3 years' experience; 20; London preferred. 3 Temple Terrace, Louth, Lincs.

LOCUM; qualified; day, week, or month (or permanent engagement). Drallop, 4 De Beauvoir Road, N.

ASSISTANT; 26; unqualified; London; outdoors preferred; 11 years. Wilson, Mount Pleasant, Downham.

LOCUM or Manager, branch or otherwise; qualified; experienced. Buck, 109 Stuart Street, Luton, Beds.

JUNIOR, tall; splendid references and good experience. "Alpha," Devonshire House, Portslade, Sussex.

CHEMISTS' Assistant; disengaged evenings and every other Sunday. "Chemist," 82 Crowndale Road, N.W.

MANAGER, Assistant, or Locum; disengaged; aged 34. Powell, Willow Grove, Highfield, Lancaster.

MANAGER or Senior; fully qualified and experienced; Extractor. H., Mrs. Coombes, Stratford-on-Avon.

ASSISTANT; experienced; 24; Prescriber, Dispenser; disengaged. "Extractor," 4 Queen's Road, Portsmouth.

JUNIOR or Improver; 19½; medium height; good references. "Exam.," 3 Commercial Street, Huddersfield.

LOCUM-TENENS; qualified; disengaged June 12. Andrews, c/o Mr. Hutchin, Chemist, Ashby, Leicestershire.

AS Manager, Senior, or Temporary; qualified; aged 28; disengaged. "Minor," c/o Chemist, 41 Moorgate Street, E.C.

MINOR, Extractor, married, desires permanency. "Chemist," 86 Thompson Street, Rochdale Road, Manchester.

MANAGER of good-class business; experienced; excellent references; Major; 29. Brackenbury, Bardney, Lincoln.

WANTED, re-engagement (Wholesale); well up in Sundries; 12 years at Maws. K., 29 Richmond Road, Dalston, N.E.

LOCUM-TENENS; qualified; disengaged; good references. "Chemist," 2 St. John's Villas, St. John's Road, Fenge.

AS Branch Manager or otherwise; 24; unqualified; fully competent; disengaged. L., c/o Pharmacy, Southbury Road, Enfield.

LOCUM or Manager; permanency; near London preferred; married; 34; qualified. "Chemist," 6 Park Road, Merton Road, Morden.

BRANCH Manager; registered Prescriber, Tooth-extractor; good references. Address, 73 Gillington Road, Bradford, Yorkshire.

JUNIOR, South Coast or City, good-class berth required for few months; used to Dispensing. J. Hamerton, Oundle, Northants.

AS Junior or Improver; indoors; served two years' apprenticeship; reference good; no salary required. Apply, Castleton, Torquay.

JUNIOR; 21; 6 years' experience; highly recommended; Manchester or Liverpool preferred. Draper, c/o Harrison, Chemist, Blackburn.

QUALIFIED; 25; good references; London experience; disengaged; abstainer. "Cymro," 7 Charleville Road, West Kensington, W.

ASSISTANT; 21½; abstainer; part-time; London; preparing for Minor; good references. "Assistant," c/o Althorp, Chemist, Woking.

LOCUM-TENENS; 30 years' town and country experience; disengaged after June. "Locum," c/o Davy Yates, 64 Park Street, Southwark.

MANAGER, Assistant; 31; single; disengaged; all-round experience; temporary, permanent. "Chemicus," 29 Berwick Street, London, S.W.

MANAGER or Senior; qualified; married; West-end and provincial experience; first-class references. "Borax," 3 Quainton Villas, Harlow, Essex.

SITUATIONS OPEN—Cont.

WANTED, an Assistant; must be a good Dispenser. Apply, stating age, height, and salary expected (indoors), to Lancaster & Co., 8 High Street, Croydon.

AN Assistant, early; aged about 24; one accustomed to good-class Dispensing and Retail. With photo, age, height, and usual particulars, apply, A. Thresh, Buxton, Derbyshire.

WANTED, a gentlemanly Assistant, qualified; must be a good Prescriber; used to a Store trade preferred. Photo and references, to Shacklock, The Pharmacy Hall, Mansfield.

WANTED, at once, a gentlemanly qualified Assistant, about 25, for a high-class Retail and Dispensing business. Apply, H. S. Cooper, Kingston Hill (personal interview preferred).

N. M. GROSE, Pharmacist, Swansea, is in want of a qualified Assistant as second hand; 3 kept; a knowledge of Welsh desirable. Full particulars, with photo, which will be returned.

QUALIFIED, smart, outdoor Assistant wanted for the Store trade; not over 35. State full particulars, salary required, and enclosing photo, to The County Trading Company (Limited), Carlisle.

QUALIFIED Assistant for Retail, and occasional Travelling, wanted by Mawson, Swan & Weddell, Newcastle-on-Tyne. State full particulars of experience, references, and salary, photo if convenient.

SHARP and energetic Assistant wanted, accustomed to brisk Cash business, to Manage Branch; Tooth-extractor; outdoors; half-day off each week; Minor qualification. Hunter, Cash Chemist, Carlisle.

WANTED, an Assistant, with Minor Qualification, in a Light Retail and Dispensing business. Apply, stating age, height, and experience, when disengaged, Grosvenor, 142 High Street, Hadley, Middlesex.

MANAGER; qualified; first-class Counterman; must give all references; good Prescriber and good address; £130 to start with. 276/4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, Manager or Assistant, qualified, for Light Retail, Dispensing, and Prescribing business; permanency; indoors. Apply, stating age, salary required, and references to King's Pharmacy, Southend-on-Sea.

WANTED (outdoors), qualified Assistant, not under 25 years of age; must be a smart Counterman and have good references. Apply personally, or send full particulars, to Williams & Peters, 165 Fortess Road, N.W.

IMMEDIATELY, a smart Assistant, about 23, qualified; outdoors; one accustomed to modern store business preferred. Apply (personally if possible), Bate's Drug Stores, 44 Harrington Road, Queen's Gate, S.W.

CHEMIST'S Assistant (qualified) wanted for Calcutta; single, and must have had first-class experience; 4 years' agreement; passage out paid. Apply, by letter, to Alex. Lawrie & Co., 14 St. Mary Axe, London, E.C.

WANTED, qualified Junior, accustomed to Store trade, one with knowledge of Photography preferred; state age, height, salary required, and enclose photo, if convenient. Apply, John B. Foggitt, Pharmacist, Southport.

WHOLESALE.—Wanted, a man brought up to the Drug trade, with all-round experience, aged about 26, for a Colonial situation. Apply by letter, with full particulars, to 64/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMMEDIATELY, a qualified Assistant for good-class Dispensing business, accustomed to Store trade; indoors. Apply, personally if possible, to "Manager," West Kensington Drug Stores (Limited), 1 Baron's Court Road, West Kensington.

M. R. GRIFFITHS, Chemist, Openshaw, requires Branch Manager, at once; must be sober, honest, and good all-round man; Prescriber and Extractor preferred; this is a permanency for a suitable man; give fullest particulars when applying.

A CAPABLE and fully qualified man to take charge of first-class Store counter; must be a good Salesman, energetic, and competent in all respects; single; under 30 years. Reply, with full particulars, to A. B., 56 Bath Road, Wolverhampton.

TO Dispensers.—Required, for the Prison Service (England and Wales), Compounders of Medicines; candidates must hold a diploma of the Pharmaceutical Society; age 24 to 30; salary £105 per annum, rising by £2 per annum to £125, with quarters or £15 per annum in lieu, uniform, and medical attendance and medicines. Personal application, with satisfactory testimonials of recent date, from responsible persons, should be made to the Governor of the nearest Prison, or, in the case of candidates residing in or near London, to the Governor of H.M. Prison, Wandsworth. No travelling or other expenses will be allowed; no person whose health, character, and past career will not bear the most rigid investigation need

A JUNIOR Assistant, of good business ability; qualification not essential; outdoors. Apply, with references, and state salary required, to A. Borridge, Cheapside, Leicester. Applications not answered in three days may be considered declined.

WANTED, a thoroughly competent and trustworthy qualified Assistant, as Manager for a large business conducted on the Cash system. Apply, giving full particulars, to R. Roberts, Pharmaceutical Chemist, 13 Church Street, Camberwell, S.E.

ABOUT mid-June, an experienced Assistant, in a first-class Country business, about 20 miles S.E. of London; one who can Extract Teeth preferred; very comfortable home. Apply, personally, or by letter, to W. W. Flood & Co., 206 Borough High Street, S.E. No Sunday duty.

IMMEDIATELY, Assistant; outdoors; 2 kept; not under 23; one accustomed to a Country business preferred; hours 8 to 7, fortnightly half-holiday. State experience, age, height, salary, and enclose photo (to be returned), J. L. Davies & Son, Chemists, Hay, R.S.O.

WANTED, a first-class Travelling Agent amongst Wholesale Grocers, Oil and Colour Men, Chemists, &c., for Liverpool and district, for an article in daily and increasing consumption. Apply to No. 4,468, Ratcliffe's Advertising Office, 4 Rumbold Street, Liverpool.

WANTED, by July 4 or before, Assistant, Junior, not under 24; must be well up in Dispensing, a neat writer, and accustomed to first-class business. Apply personally (or by letter, with full particulars and photo), to C. Davis, 8 Union Terrace, Notting Hill, London.

H. C. WEBB, Pharmaceutical Chemist, Buckingham, requires a Junior indoor Assistant, accustomed to Agricultural and good-class Family trade. Applicant must state age, height, and salary required, and if able to Extract Teeth; no Sunday work; comfortable home.

WANTED, an Assistant (in or out doors), not under 23, who is thoroughly used to Dispensing and Light Retail; one requiring a permanency preferred. Apply, with full particulars, including salary required and last two references, to E. Silk, Teignmouth, South Devon.

IMMEDIATELY, smart Junior, of good appearance and address, about 22; must be quick at Counter, and reliable Dispenser; preference given to one with knowledge of Postal-work and Tooth-extraction. Full particulars and photo to Ashfield, King's Road Pharmacy, Reading.

LONDON, N.W.—Wanted, Senior Assistant; indoors; aged 25 to 30; Minor qualification preferred; liberal salary to competent man. Apply, by letter in the first instance, with full particulars, and carte if practicable, to "Pharmacist," c/o Baiss Bros. & Co., 4 Jewry Street, E.C.

A STEADY and reliable Junior, of good appearance and address, accustomed to Country trade; a comfortable home and time for study. Apply, stating age, height, salary (indoors), and reference, with photo, to T. Brown, Pharmaceutical Chemist, Lutterworth, Leicestershire.

MANAGER wanted for high-class Drug-store; must be of gentlemanly appearance and address, and possess a thorough knowledge of this class of business in all its branches. Apply, stating full particulars of past experience, salary required, &c., "Energy," Quelch, 4 Ludgate Square, E.C.

JUNIOR Assistant, qualified, outdoors, for high-class Dispensing business. Full particulars of experience, height, and references, with photo, to "Pharmacists," Messrs. Meggeson & Co., Miles Lane, Upper Thames Street, E.C.

WANTED, immediately, a qualified Assistant, 25 to 30, single, to Manage a small Retail and Prescribing Cash Business (in or outdoor). Apply, with full particulars, stating age, height, references, salary required, and send photo (to be returned), to Brodley, 39 Connaught Road, Kensington, Liverpool.

WANTED, a good Junior or Improver, at once; Welsh preferred; must be active and obliging; hours 8 to 8; weekly half-holiday; no night or Sunday duty; indoors. Send fullest particulars in first letter to Thomas, Chemist, Trebarris.

GOOD Junior Assistant wanted, for the Retail; qualified preferred, but not essential; no Sunday duty; half-holiday weekly; light hours; plenty of work during business hours. State salary required outdoors, full details, and give references, photo if possible, W. Kemp & Son, Wholesale and Retail Druggists, Horncastle.

WANTED, at once, Junior Assistant (indoors), used to Dispensing and Retail; one possessing knowledge of Photographic Apparatus and Requisites preferred. Apply, enclosing photo (to be returned), with references, salary required, and all particulars, age, experience, &c., to "Chemists," 22 High Street, Brompton, Kent.

WANTED, thoroughly competent Managing Assistant of gentlemanly address, for large brisk Family and Agricultural trade; favourable opportunity for a pushing qualified man with business habits to acquire permanent position; good salary, either fixed or, if preferred, partially progressing, with profits; what is wanted is a good man for a good business, and none need apply whose character and trade experience will not bear strictest investigation; in first letter state age, height, married or single, references, and particulars of experience, and enclose photo, which will be returned; particulars held as confidential if desired. Address, in first instance, "Camphor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

S.W. DISTRICT.—An old-established Business with a branch to be Disposed of, together or separately. Apply, 114 High Street, Clapham.

£300.—Retail and Prescribing, doing £320 under management, could be doubled with personal supervision. Apply in first instance to Hooper, 91 Manningham Lane, Bradford, Yorks.

DEATH vacancy, North London (near Tufnell and Caledonian Parks).—A small business, double-fronted corner shop, nicely fitted, together with stock and furniture in the house; £230 as it stands. C. M., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST and Druggist for Sale, a bargain; suit a beginner; rent £50, part let off; proprietor retiring through old age; price £60 to an immediate purchaser; a younger man would soon double the business; stock at valuation. 65 Old Street, E.C.

CITY Business for immediate Disposal; returns £2,400 yearly; price £2,000, which is merely the value of the stock and fixtures; part of the purchase-money could remain if required, as owner is retiring. 277/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR immediate Disposal, an unopposed Drug Business (Prescribing, Extracting) in large mining town in North of England; a splendid opportunity for young man with small capital; valuation about £80. Full particulars from 276/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Sale, a good Prescribing and Retail Business in South Wales; splendidly fitted and well stocked; very few patents, and good prices obtained; proprietor giving up on account of ill-health, and is prepared to sell at a fair price. Address, 253/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DUNDEE.—Chemist's Business; splendidly fitted-up double shop in busiest thoroughfare in the city; genuine opening for Drug Store; first-class opportunity for an energetic young man; small capital required; fittings and stock at valuation, no goodwill. For particulars, apply, D. McIntyre, C.A., Dundee.

SOUTHSEA.—Old-established good Prescribing and Counter trade; best commercial position; all ready-money, no patents; returns can be doubled with attention; house small but very convenient and comfortable; proprietor otherwise engaged will take reasonable offer, about £600; letters only. Noyce, Broughton, Hampshire.

BIRMINGHAM.—A profitable Light Retail Business, returning £450; good double-fronted corner shop in thronged neighbourhood and commanding position; a much larger return might be made by introducing some heavy trade; price to an immediate purchaser £200. Apply, R. Tomlinson & Sons, Bond Street, Birmingham.

£100 or offer.—Retail and Prescribing Business; London suburb; no opposition for 3 mile; under management; returns £4 to £5 weekly; rent £35, let off £23; well fitted in mahogany; plate-glass front; price £100, less than valuation. "Bargain," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TASTE and Try.—Purchaser will rent his Business for £85 a year (10 per cent. of valuation of stock and fixtures) to responsible man, with option of purchase at any time; situated in leading thoroughfare of large Yorkshire town; good house, back way, &c.; rent £75, on lease. 62/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SWANSEA (Suburb).—Good General, Retail, and Prescribing Business; capable of increase; corner shop; good house; side entrance, with convenient yard; long lease, low rent; only Chemist in neighbourhood; population over 20,000; satisfactory reason disposal; price about £300; worthy of attention. Address, "Branch," c/o R. Prust, Chemist, Cardiff.

NEWLY-ESTABLISHED Dispensing, Prescribing, and Light Retail Business; good residential suburban locality, increasing; no immediate opposition; suit beginner; will develop into a good thing; excellent house; shop double fronted, well fitted; good working stock; price £275. "Med," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

UNOPPOSED. old-established Agricultural, Retail, and Prescribing Business, in small country town, Southern county; present returns over £500, and capable of considerable increase; premises very convenient, good house, and large garden; lease 12 years to run; price £400 or thereabouts; only purchasers with cash need apply. Address, "Fly Powder," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WORCESTERSHIRE—Profitable ready-money Retail, Prescribing Business; low rent; main thoroughfare; manufacturing market town, 14,000 population, increasing; returns £400; several good paying proprietaries; splendid opportunity for Stores, which would treble takings immediately; price £130 inclusive; proprietor going abroad; bona-fide purchasers only; no agents. "Integrity," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENUINE Light Retail, Dispensing, and Prescribing Business, doing £7 weekly under management, can be largely increased; rent £30; price £225. H. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST'S Shop, old-established, with lease, for Sale; rent £32; rising district, near London; good opportunity for Chemist with small capital; genuine investment at low price. Address, "Lessee," Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

FOR immediate Sale for Cash or Credit, a small Chemist's and Druggist's Business (Surgery might be added most successfully) in London; working neighbourhood, dense population, scarcely any opposition; qualified married man, without family, or young man should make a good living. Address, 278/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO be Sold, at valuation, an old-established Country Business in Norfolk; commodious and convenient premises, with garden and stabling; low rent; good-class Family and Agricultural trade, returning about £750, with good profits; sole reason for selling is death of the late proprietor, who had the business for over 50 years. For full particulars, apply to Smith & Sons, Wholesale Druggists, Norwich.

£180. £160 of which must be paid down; genuine Retail, in suburb of large city in Midlands; suit either qualified or unqualified, and doing £7 to £9 weekly; rent £18, of which £10 10s. is paid by post office attached; Dental practice attached, and worked by man on commission; all a going concern; owner taking larger concern; populous and healthy district; no agents, and only bona-fide purchasers replied to. Address, H., 53 Wednesbury Road, Walsall.

BUSINESSES WANTED.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

MESSRS. BERDOE & CO., of 30 Jewry Street, City, have at the present time a number of clients desirous of purchasing Businesses in both town and country, having cash at command from £500 to £3,000; gentlemen wishing to dispose of their Businesses should communicate with us at once; we are often enabled through our large connection to effect a transfer in a few days; terms sent on application.

TO LET.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

TO Medical Men.—Large and commodious 10-roomed residence and corner shop with 3 entrances, admirably adapted for a Dispensary and Surgery, easy of access from City and West-end, situate 16 Murray Street, Camden Square, close to Camden Town Station (N. L. R.); rent only 50 guineas; key (Gibbons) next door; No. 17. Further particulars of A. Morton Smith, 4 Queen Street Place, E.C.

BOARD AND RESIDENCE.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

PART-TIME.—Board and lodging in return for the above; suitable for students. Apply, 175 Uxbridge Road, London, W.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, a qualified Assistant. Apply personally, C. J. Miles, 165 Edgware Road, W.

JUNIOR for Branch; indoors. Apply, stating terms, age, &c., to County Drug Stores, Leamington.

JUNIOR; good appearance and smart; one wishing to study can have time. Marshall, 5 Piccadilly Road, S.W.

JUNIOR for Wholesale; give references. State experience, age, height, and salary required (outdoors), to Bradley & Bliss, Reading.

QUALIFIED Managing Assistant, for good class of Country trade; married preferred; about 30. C. J. Campion, Harlow, Essex.

IMPROVER wanted, indoors. Apply, stating usual particulars and enclosing photo, to Richardson, Chemist, Hadfield, near Manchester.

ASSISTANT; age about 25; state salary (indoors), experience, and send photo; letters not answered in three days declined. Wood, Chemist, Oldham.

JUNIOR; must have had good experience in Dispensing and Retail. Apply, personally, after 7 p.m., Thomas Greenish, 20 New Street, Dorset Square, N.W.

SITUATIONS WANTED—Cont.

LOCUM-TENENS; aged 28; disengaged; good Extractor. 2 Horton Street, Lewisham, S.E.

LOCUM-TENENS; qualified; long experience; disengaged. "Chemist," 8 Church Street, Salisbury.

PART-TIME, in London; qualified; competent; aged 30; experienced; good references. "Drugs," 2 Tarbert Road, East Dulwich, S.E.

THOMAS FAWTHROP, Portslade, can recommend his Assistant as Junior; has knowledge of Postal duties. Fawthrop, Portslade, Brighton.

DRUGGISTS' Sundries; young man; experienced, to take charge of Department; wages about 30s. C/o H., 14 Faunce Street, Kennington Park.

ASSISTANT; London; qualified; 25; 5 ft. 10½ in.; good Dispensing experience; no Stores. H. Watson, Clyde Terr., Spenny-moor, Durham.

SURGEON'S Dispenser, Chemist's Manager, or Locum; married; disengaged June; highest references. "Alpha," Albany Villa, 101 Dover Road, Folkestone.

JUNIOR; 22; 5 ft. 9 in.; 6½ years London and country; disengaged; Extractor; highest references; country preferred. "Statim," Post Office, Pontypidd.

MANAGERSHIP required by energetic Minor; aged 27; country, provincial, and London experience; disengaged. "Demos," 73 Spring Bank, Hull.

LOCUM or permanent; good Prescriber and Salesman; outdoor; 32 years old; unqualified; highest references; 6 years last situation. B. D., 62 Burton Crescent, W.C.

MANAGER or Assistant; Country preferred; aged 29; 15 years' experience; exceptional references; married; unqualified. Roberts, 106 Paterson Street, Birkenhead.

EMPLOYER recommends his Assistant; unqualified; competent Dispenser, Salesman, and Prescriber; good address; disengaged; 23. A. B., c/o Taylor, Chemist, Blackpool.

YOUNG MAN, as Traveller, requires berth in good Drug House; of good appearance; energetic. 56/39, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGERSHIP, permanency, in or near London, in month's time; tall; 11½ years' experience. G., c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER, aged 30, married, late Medical Assistant, requires engagement at once; good address. 274/26, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LOCUM-TENENS or management; aged 28; now disengaged; total abstainer; varied experience; competent take charge; references. Watson, 228 Upper Kennington Lane.

IMPROVER; indoors; 18; height 5 ft. 7 in.; 2½ years' experience; can dispense; no salary first month. Apply, 277/37, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER; provincial; drugs; qualified Chemist; excellent connection; highest references; disengaged. 225/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER (Young), wants extra commission; part expenses; splendid connection; London and suburbs. 277/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER seeks re-engagement in the Wholesale Drug trade, in town or suburbs; many years' experience. Apply, F. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, by a young French Pharmacist, a situation for a few months; speaks English a little, and knows English Pharmacy; salary no object. Mr. Victor Bros, 65 Rue St. Honoré, Fontainebleau (France).

BRANCH Manager or Surgeons' Dispenser; aged 31; experienced, unqualified, married; last situation 5 years; good country berth not objected to. "Prorsum," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Assistant; 8 years' experience all-round Mixed business, Extracting, and Prescribing; married; not qualified; aged 23; height 5 ft. 6 in. A. H. Perkins, c/o John Dale, A.P.S., Dispensing and Family Chemist, 258 South Road, Walkley, Sheffield.

BRANCH Manager, married, qualified, experienced Dispenser and Extractor, active good Salesman, seeks re-engagement. "P.," Willows, Francis & Butler, 101 High Holborn, London.

LOCUM-TENEN 3, as Manager or Assistant, during Summer holidays; country only; Registered; steady and reliable; highest references; terms moderate. "Extractor," 23 Florence Road, London, S.E.

WANTED, Temporary Engagements as follows:—Until July 6; from July 21 until August 6; and after 21st August; experienced; well up in Retail; a reliable Prescriber; excellent references. "Qualified," Clyde Villa, New Cross Road, London, S.E.

SITUATION required by a youth, aged 19, desirous of learning the Retail trade; good knowledge of Dispensing; 4 years under qualified Chemist in private surgery; height 5 ft. 10 in.; passed Preliminary; disengaged June 25. Apply, King, 24 Hardinge Road, Ashford, Kent.

WHOLESALE.—Mr. C. Smith begs to intimate that his engagement with Messrs. Hodgkinson, Prestons & King will terminate the end of the present month, when he will be at liberty to represent any Wholesale Drug House in London, the Suburbs, and the South Coast. Address, 55 Hatcham Park Road, New Cross.

MINOR October Exam.—Wanted, Tuition for above; terms moderate. Address, W. T. F., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

SURPLUS Photographic Mounts: Cartes, 5s.; Cabinets, Bristol, 12s.; Cabinets, enamelled, 15s. 1,000; also Plate Sunk, Oxford Lines. Samples free. Edward Peck, East Dereham, Norfolk.

Re THOMAS CLARKE, Chemist, Stockport, Deceased.
ALL persons having Claims against the above Estate are requested to send particulars of the same, on or before the 15th inst., to Henry Howard, 19 Market Place, Stockport.

FOR sale, the Fittings, Shelves, Drawers, Bottles, &c., of a Chemist Shop in town in West of England; most suitable for one opening; in splendid condition; a bargain to anyone, and no reasonable offer refused; must be cleared before September. Full particulars from C. J. Sage, Chemist, Frome.

AGENTS wanted for Dr. Pissin's Pure Emulsified Oalf Lymph, the only reliable Lymph in the market. Prepared under the strictest supervision of the Imperial Health Office of Berlin. Sole consignee for Great Britain and Ireland, J. W. Russell Morgan, Tower Pharmacy, Dundee, to whom applications for sub-agencies should be addressed.

CHEMISTS' Shop-fittings; second-hand; great bargain; range of mahogany-fronted drawers, shelving, &c. complete; mahogany-fronted counter, desk and case, and counter-case; £25 the lot; cost £100; also an immense quantity of other fittings, glass wall and counter cases, dispensing-screens, counters, bottles, and every requisite for fitting up. Philip Josephs, 54 Old Street, City Road, London, E.C.

CHEMISTS' Shop Fixtures; large variety, new and second-hand, including handsome mahogany wall-case, glass doors (top and bottom), movable shelves, and lift-up circular flaps to centre; ranges of mahogany drawers with bevelled-glass labels and knobs, shelving above, lockers below; plate-glass and mahogany dispensing-screens, counters, flat and bent-front counter-cases, counter-desks, whole fittings for high-class Chemists' shops; estimates free. Matthews, 14 Manchester Street, Liverpool.

PRELIMINARY AND MINOR.

STUDENTS! Send to-day for particulars of a Method of Study which will enable you to pass with ease. Knotty Points in Latin Grammar, 1s. 6d.; Caesar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Prize-man), Chemist, Hastings.

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